

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

F#2\_R2

**C Number:** C95003  
**Lock Date:** 01/29/2007  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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Date Report Requested: 07/06/2010  
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First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

**ANIMAL NUM:** 1

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111966

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Brain		Compression	Moderate
	[ Compression TGLs = 8-1 ]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		
Mesentery		Schwannoma Malignant	
	[ Schwannoma Malignant TGLs = 3-22 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas	Olfactory Epi	Metaplasia	Respiratory, Minimal
		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 1

TMT: 1

SEX: Male

DAY ON TEST: 716

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 111966

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 7-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLs = 5-23,6-24, 1-21 ]			
[ Ulcer TGLs = 5-23,6-24 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLs = 4-7 ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

- Mesentery Schwannoma Malignant

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 Methyl trans-styryl ketone  
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Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 2

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 111967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose                    | * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                      |            |   |                 |
|----------------------|------------|---|-----------------|
| * Adrenal Cortex     |            | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Moderate |
|                      |            | Leukemia Mononuclear                              |                 |
| * Adrenal Medulla    |            | Hyperplasia                                       | Mild            |
|                      |            | Leukemia Mononuclear                              |                 |
| * Bone Marrow        |            | Leukemia Mononuclear                              |                 |
| * Heart              |            | Cardiomyopathy                                    | Moderate        |
| * Islets, Pancreatic |            | Carcinoma   |                 |
| * Kidney             |            | Leukemia Mononuclear                              |                 |
|                      |            | Nephropathy                                       | Moderate        |
| * Liver              |            | Basophilic Focus<br>Degeneration                  | Cystic, Mild    |
|                      |            | Eosinophilic Focus                                |                 |
|                      | Bile Duct  | Hyperplasia                                       | Mild            |
|                      |            | Leukemia Mononuclear                              |                 |
|                      |            | Mixed Cell Focus                                  |                 |
|                      |            | [ Hyperplasia TGLs = 7-6 ]                        |                 |
|                      |            | [ Leukemia Mononuclear TGLs = 7-6 ]               |                 |
| * Lung               |            | Leukemia Mononuclear                              |                 |
| Lymph Node           | Pancreatic | Leukemia Mononuclear                              |                 |

Note: LYMPH NODE, MEDIASTINAL - MISSING.

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

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Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 2

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111967

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 5-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 2-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 4-22 ]		
* Pancreas		Atrophy	Minimal
		Cyst	
		Hyperplasia	Focal, Mild
* Pituitary Gland	Acinus	Adenoma	
	Pars Distalis		
	[ Adenoma TGLs = 9-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin		Fibroma	
	[ Fibroma TGLs = 1-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-6 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 3-7 ]		
* Thymus		Cyst	

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 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 3

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111968

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Leukemia Mononuclear	Fatty, Moderate Focal, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy Thrombosis	Moderate Moderate
	[ Thrombosis TGLs = 9-12 ]		
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct Hepatocyte	Hyperplasia Hyperplasia Leukemia Mononuclear	Marked Focal, Moderate
	[ Hyperplasia TGLs = 7-6 ]		
	[ Leukemia Mononuclear TGLs = 7-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Marked
	[ Infiltration Cellular TGLs = 8-2 ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 13-3 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
	[ Hemorrhage TGLs = 6-5 ]		

\* PROTOCOL REQUIRED TISSUE

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 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 3

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111968

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1-21 ]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Marked
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[ Adenoma TGLs = 12-1 ]		
	[ Leukemia Mononuclear TGLs = 12-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
	[ Hyperplasia TGLs = 11-23 ]		
	[ Ulcer TGLs = 11-23 ]		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[ Fibrosis TGLs = 5-22 ]		
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

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 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 4

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 111969

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Brain                  | * Epididymis               | * Esophagus               |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |                            |  |                                  |
|--|----------------------------|--|----------------------------------|
| * Adrenal Cortex                         |                            | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hyperplasia | Fatty, Minimal<br>Focal, Minimal |
| * Adrenal Medulla                        |                            | Pheochromocytoma Benign  |                                  |
| * Bone Marrow                            |                            | Leukemia Mononuclear   |                                  |
| * Eye                                    | Retina                     | Degeneration   | Mild                             |
| * Heart                                  |                            | Cardiomyopathy   | Moderate                         |
| * Islets, Pancreatic                     |                            | Adenoma  |                                  |
| * Kidney                                 |                            | Inflammation<br>Nephropathy                                      | Chronic, Mild<br>Moderate        |
| * Liver                                  |                            | Basophilic Focus<br>Clear Cell Focus                             |                                  |
|  | Bile Duct                  | Hyperplasia<br>Leukemia Mononuclear                              | Mild                             |
| Lymph Node                               |                            |  |                                  |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                            |  |                                  |
| * Lymph Node, Mesenteric                 |                            | Leukemia Mononuclear   |                                  |
| * Mammary Gland                          |                            | Hyperplasia  | Moderate                         |
|  | [ Hyperplasia TGLs = 1-8 ] |  |                                  |
| * Nose                                   |                            | Foreign Body   |                                  |
|  | Respirat Epith             | Hyperplasia  | Minimal                          |

\* PROTOCOL REQUIRED TISSUE



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Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 4

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111969

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
[ Adenoma TGLs = 3-1 ]		Adenoma	Multiple
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLs = 2-7 ]	Germinal Epith	Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
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Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 5

TMT: 1

SEX: Male

DAY ON TEST: 590

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 111970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular
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AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Brain		Compression	Marked
[ Compression TGLs = 3-1 ]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 2-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

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 Lab: SRI

**ANIMAL NUM:** 6

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111971

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Clear Cell Focus	
	Bile Duct	Hyperplasia Leukemia Mononuclear Mixed Cell Focus	Mild
Note: MIXED CELL FOCI ARE ON SLIDES 6 AND 22. [ Mixed Cell Focus TGLs = 4-22 ]			
* Mammary Gland		Hyperplasia	Moderate
		[ Hyperplasia TGLs = 1-8 ]	
Mesentery	Fat	Necrosis	Mild
		[ Necrosis TGLs = 3-21 ]	
* Nose		Foreign Body Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis Pars Intermed	Adenoma Angiectasis	Mild
		[ Adenoma TGLs = 6-1 ]	

\* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 6

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111971

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Skin		Fibroma	
	[ Fibroma TGLs = 5-23 ]		
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 2-7 ]		

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Lab: SRI

**ANIMAL NUM:** 7

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 368

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 111972

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Mammary Gland
* Nose	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

Lymph Node

Note: LYMPH NODE, MEDIASTINAL - MISSING.

\* Lymph Node, Mesenteric

\* Pancreas

\* Preputial Gland

Hyperplasia

Atrophy

Inflammation

Lymphoid, Mild

Mild

Chronic, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

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 Lab: SRI

**ANIMAL NUM:** 8

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 111973

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Mammary Gland          |
| * Parathyroid Gland        | Peripheral Nerve          | * Preputial Gland           | * Salivary Glands        |
| * Seminal Vesicle          | Spinal Cord               | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |                             |                                   |                   |
|--|-----------------------------|-----------------------------------|-------------------|
| * Adrenal Cortex                         |                             | Accessory Adrenal Cortical Nodule |                   |
|  |                             | Hypertrophy                       | Focal, Mild       |
| * Adrenal Medulla                        |                             | Pheochromocytoma Benign           | Multiple          |
| * Heart                                  |                             | Cardiomyopathy                    | Moderate          |
|  |                             | Thrombosis                        | Mild              |
| * Kidney                                 |                             | Inflammation                      | Chronic, Moderate |
|  |                             | Nephropathy                       | Moderate          |
| * Liver                                  |                             | Basophilic Focus                  |                   |
|  |                             | Clear Cell Focus                  |                   |
|  |                             | Eosinophilic Focus                |                   |
|  | Bile Duct                   | Hyperplasia                       | Minimal           |
| Lymph Node                               | Deep Cervical               | Hyperplasia                       | Lymphoid, Mild    |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                             |                                   |                   |
|  | [ Hyperplasia TGLs = 6-22 ] |                                   |                   |
| * Lymph Node, Mesenteric                 |                             | Hemorrhage                        | Minimal           |
|  | [ Hemorrhage TGLs = 4-5 ]   |                                   |                   |
| Mesentery                                | Fat                         | Necrosis                          | Mild              |
|  | [ Necrosis TGLs = 3-21 ]    |                                   |                   |
| * Nose                                   |                             | Foreign Body                      |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 8

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111973

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[ Angiectasis TGLs = 7-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
[ Adenoma TGLs = 2-7 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 9

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111974

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Parathyroid Gland      |
| * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                  |                                     |   |                               |
|------------------|-------------------------------------|---|-------------------------------|
| * Adrenal Cortex |                                     | Degeneration<br>Hyperplasia<br>Leukemia Mononuclear | Fatty, Mild<br>Focal, Minimal |
| * Bone Marrow    |                                     | Leukemia Mononuclear                                |                               |
| * Heart          |                                     | Cardiomyopathy                                      | Moderate                      |
| * Kidney         |                                     | Nephropathy   | Mild                          |
| * Liver          | Bile Duct                           | Hyperplasia<br>Leukemia Mononuclear                 | Marked                        |
|                  | [ Hyperplasia TGLs = 6-6 ]          |   |                               |
|                  | [ Leukemia Mononuclear TGLs = 6-6 ] |   |                               |
| * Lung           |                                     | Infiltration Cellular<br>Leukemia Mononuclear       | Histiocyte, Mild              |
| Lymph Node       | Mediastinal                         | Leukemia Mononuclear                                |                               |
| * Mammary Gland  |                                     | Hyperplasia   | Moderate                      |
|                  | [ Hyperplasia TGLs = 1-8 ]          |   |                               |
| * Nose           |                                     | Foreign Body<br>Fungus                              |                               |
|                  | Respirat Epith                      | Hyperplasia   | Mild                          |
|                  |                                     | Inflammation  | Chronic, Marked               |
|                  | Respirat Epith                      | Metaplasia  | Squamous, Moderate            |
|                  | Turbinate                           | Necrosis  | Mild                          |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 9

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111974

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	[ Adenoma TGLs = 8-1 ]	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Skin	Control	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
	[ Hyperplasia TGLs = 7-22 ]	Ulcer	Marked
	[ Ulcer TGLs = 7-22 ]		
* Spleen		Fibrosis	Moderate
	[ Fibrosis TGLs = 5-21 ]	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Stomach, Glandular		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLs = 2-7 ]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 10

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 663  
**HISTO:** 111975

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Pancreas                 | * Parathyroid Gland       | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**OBSERVATIONS**

- |                   |  |                                   |                   |
|-------------------|--|-----------------------------------|-------------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule |                   |
| * Brain           |  | Compression                       | Marked            |
|                   |  | Necrosis                          | Mild              |
|                   | [ Compression TGLs = 3-1 ]               |                                   |                   |
| * Heart           |  | Cardiomyopathy                    | Moderate          |
| * Kidney          |  | Nephropathy                       | Minimal           |
| * Liver           | Bile Duct                                | Hyperplasia                       | Mild              |
| * Lung            |  | Alveolar/Bronchiolar Adenoma      |                   |
| Lymph Node        |  |                                   |                   |
|                   | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                   |                   |
| * Mammary Gland   |  | Hyperplasia                       | Marked            |
|                   | [ Hyperplasia TGLs = 1-8 ]               |                                   |                   |
| * Nose            |  | Fungus                            |                   |
|                   | Respirat Epith                           | Hyperplasia                       | Minimal           |
|                   |  | Inflammation                      | Chronic, Mild     |
|                   | Respirat Epith                           | Metaplasia                        | Squamous, Mild    |
| * Pituitary Gland | Pars Distalis                            | Adenoma                           |                   |
|                   | [ Adenoma TGLs = 2-1 ]                   |                                   |                   |
| * Preputial Gland |  | Inflammation                      | Chronic, Mild     |
| * Prostate        |  | Inflammation                      | Chronic, Moderate |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 11

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 703

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111976

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                      |                          |                          |                            |
|----------------------|--------------------------|--------------------------|----------------------------|
| * Bone               | * Brain                  | * Esophagus              | * Eye                      |
| * Harderian Gland    | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Pancreas               | * Parathyroid Gland      | * Salivary Glands          |
| * Seminal Vesicle    | * Testes                 | * Thymus                 | * Trachea                  |
| * Urinary Bladder    |                          |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |                             |                            |                           |               |
|-----------------------------|----------------------------|---------------------------|---------------|
| * Adrenal Cortex            |                            | Degeneration              | Fatty, Mild   |
|                             |                            | Hypertrophy               | Focal, Mild   |
|                             |                            | Leukemia Mononuclear      |               |
| * Adrenal Medulla           |                            | Hyperplasia               | Moderate      |
|                             |                            | Pheochromocytoma Benign   |               |
| * Bone Marrow               |                            | Leukemia Mononuclear      |               |
| * Epididymis                |                            | Inflammation              | Chronic, Mild |
| * Heart                     |                            | Cardiomyopathy            | Mild          |
|                             |                            | Thrombosis                | Moderate      |
|                             | [ Thrombosis TGLs = 9-12 ] |                           |               |
| * Intestine Large, Cecum    |                            | Edema                     | Mild          |
| * Intestine Small, Duodenum | Epithelium                 | Hyperplasia               | Moderate      |
| * Kidney                    |                            | Nephropathy               | Marked        |
|                             | [ Nephropathy TGLs = 6-5 ] |                           |               |
| * Liver                     |                            | Hepatocellular Adenoma    |               |
|                             | Bile Duct                  | Hyperplasia               | Moderate      |
|                             |                            | Leukemia Mononuclear      |               |
|                             | Centrilobular              | Necrosis                  | Mild          |
|                             | Hepatocyte                 | Vacuolization Cytoplasmic | Moderate      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 11

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 703

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111976

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Hyperplasia TGLs = 7-6 ]		
	[ Leukemia Mononuclear TGLs = 7-6 ]		
	[ Necrosis TGLs = 7-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Marked
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		
	[ Ectasia TGLs = 4-21 ]		
* Lymph Node, Mesenteric		Ectasia	Mild
	[ Ectasia TGLs = 5-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	Note: MAMMARY GLAND HYPERPLASIA IS VISIBLE ON SLIDES 8 AND 22.		
	[ Hyperplasia TGLs = 1-8 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 10-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal
		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 11-22 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
	[ Ulcer TGLs = 13-4 ]		
* Stomach, Glandular		Erosion	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 11

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 703  
**HISTO:** 111976

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLs = 8-3 ]  
[ Cyst TGLs = 8-3 ]

	Follicle	Cyst
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PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Heart	Thrombosis
	- Kidney	Nephropathy
	- Pituitary Gland Pars Distalis	Adenoma
	- Stomach, Forestomach	Ulcer
	- Thyroid Gland Follicular Cel	Carcinoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 12

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 111977

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Parathyroid Gland        |
| * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                             |                                   |                   |
|-------------------|-----------------------------|-----------------------------------|-------------------|
| * Adrenal Cortex  |                             | Accessory Adrenal Cortical Nodule |                   |
| * Adrenal Medulla |                             | Pheochromocytoma Benign           |                   |
| * Brain           | [ Compression TGLs = 6-1 ]  | Compression                       | Moderate          |
| * Heart           |                             | Cardiomyopathy                    | Moderate          |
| * Kidney          | [ Inflammation TGLs = 4-5 ] | Inflammation                      | Chronic, Moderate |
|                   | [ Nephropathy TGLs = 4-5 ]  | Nephropathy                       | Marked            |
| * Liver           |                             | Basophilic Focus                  |                   |
|                   |                             | Clear Cell Focus                  |                   |
|                   |                             | Eosinophilic Focus                |                   |
|                   | Bile Duct                   | Hyperplasia                       | Minimal           |
|                   |                             | Leukemia Mononuclear              |                   |
| * Mammary Gland   | [ Hyperplasia TGLs = 1-8 ]  | Hyperplasia                       | Marked            |
| Mesentery         | [ Necrosis TGLs = 3-21 ]    | Fat                               | Necrosis          |
|                   |                             |                                   | Moderate          |
| * Nose            |                             | Foreign Body                      |                   |
|                   |                             | Inflammation                      | Chronic, Minimal  |
| * Pancreas        |                             | Atrophy                           | Moderate          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 12

TMT: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111977

ORGAN AND ACCOUNTABLE SITE STATUS

[ Atrophy TGLs = 5-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 7-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 13

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 554  
**HISTO:** 111978

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Parathyroid Gland      | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testes                    | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                            |                                   |                     |
|--------------------------|----------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex         |                            | Accessory Adrenal Cortical Nodule |                     |
|                          |                            | Degeneration                      | Fatty, Mild         |
| * Adrenal Medulla        |                            | Hyperplasia                       | Minimal             |
| * Brain                  |                            | Compression                       | Moderate            |
|                          | [ Compression TGLs = 3-1 ] |                                   |                     |
| * Heart                  |                            | Cardiomyopathy                    | Moderate            |
| * Kidney                 |                            | Nephropathy                       | Moderate            |
| * Liver                  | Bile Duct                  | Hyperplasia                       | Minimal             |
|                          | Hepatocyte                 | Vacuolization Cytoplasmic         | Moderate            |
| * Lung                   |                            | Infiltration Cellular             | Histiocyte, Minimal |
| * Lymph Node, Mesenteric |                            | Hyperplasia                       | Lymphoid, Mild      |
| * Mammary Gland          |                            | Hyperplasia                       | Marked              |
|                          | [ Hyperplasia TGLs = 2-8 ] |                                   |                     |
| * Pancreas               |                            | Atrophy                           | Mild                |
| * Pituitary Gland        | Pars Distalis              | Adenoma                           |                     |
|                          | [ Adenoma TGLs = 4-1 ]     |                                   |                     |
| * Skin                   | SOA                        | Hyperkeratosis                    | Minimal             |
| * Spleen                 |                            | Hematopoietic Cell Proliferation  | Mild                |
| * Thyroid Gland          | C Cell                     | Adenoma                           |                     |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 14

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 703

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111979

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone                   | * Brain                    | * Esophagus               | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Parathyroid Gland         |
| * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         | * Testes                    |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |                                   |               |
|-------------------|--|-----------------------------------|---------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule |               |
|                   |  | Leukemia Mononuclear              |               |
| * Adrenal Medulla |  | Hyperplasia                       | Moderate      |
|                   |  | Leukemia Mononuclear              |               |
|                   |  | Pheochromocytoma Benign           |               |
| * Bone Marrow     |  | Leukemia Mononuclear              |               |
|                   |  | Myelofibrosis                     | Moderate      |
| * Epididymis      |  | Inflammation                      | Chronic, Mild |
| * Eye             | Retina                                     | Degeneration                      | Minimal       |
| * Heart           |  | Cardiomyopathy                    | Minimal       |
|                   |  | Thrombosis                        | Moderate      |
| * Kidney          |  | Leukemia Mononuclear              |               |
|                   |  | Nephropathy                       | Moderate      |
| * Liver           | Bile Duct                                  | Hepatodiaphragmatic Nodule        |               |
|                   |  | Hyperplasia                       | Moderate      |
|                   |  | Leukemia Mononuclear              |               |
|                   | Centrilobular                              | Necrosis                          | Mild          |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 7-22 ] |                                   |               |
| * Lung            |  | Leukemia Mononuclear              |               |
| Lymph Node        | Pancreatic                                 | Leukemia Mononuclear              |               |
|                   | Mediastinal                                | Leukemia Mononuclear              |               |
|                   | [ Leukemia Mononuclear TGLs = 5-7 ]        |                                   |               |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 14

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 703

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111979

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 8-3 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-5 ]		
* Mammary Gland		Hyperplasia	Marked
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 2-21 ]		
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Intermed	Angiectasis	Minimal
	Pars Nervosa	Infiltration Cellular	Mixed Cell, Moderate
* Prostate		Inflammation	Chronic, Marked
	[ Inflammation TGLs = 4-7-1 ]		
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 9-23,10-24 ]		
	[ Ulcer TGLs = 9-23,10-24 ]		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate
	[ Ulcer TGLs = 12-4 ]		
* Stomach, Glandular		Erosion	Mild
		Ulcer	Moderate
	[ Erosion TGLs = 12-4 ]		
	[ Ulcer TGLs = 12-4 ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 15

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 710  
**HISTO:** 111980

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Mammary Gland           |
| * Parathyroid Gland         | Peripheral Nerve         | * Preputial Gland          | * Salivary Glands         |
| * Seminal Vesicle           | Skeletal Muscle          | Spinal Cord                | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |   |             |  |                                  |
|---|-------------|--|----------------------------------|
| * Adrenal Cortex  |             | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hypertrophy<br>Leukemia Mononuclear | Fatty, Minimal<br>Focal, Minimal |
| * Adrenal Medulla   |             | Leukemia Mononuclear<br>Pheochromocytoma Benign  |                                  |
| * Bone Marrow   |             | Leukemia Mononuclear   |                                  |
| * Epididymis  |             | Inflammation   | Chronic, Mild                    |
| * Heart   |             | Cardiomyopathy   | Moderate                         |
| * Islets, Pancreatic  |             | Carcinoma  |                                  |
| Note: ISLET CELL CARCINOMA IS PARTIALLY OBSCURED BY MONONUCLEAR LEUKEMIA INFILTRATION.<br>[ Carcinoma TGLs = 5-24 ] |             |  |                                  |
| * Kidney  |             | Leukemia Mononuclear<br>Nephropathy  | Mild                             |
| * Liver   | Bile Duct   | Hyperplasia<br>Leukemia Mononuclear  | Moderate                         |
| [ Hyperplasia TGLs = 8-6 ]<br>[ Leukemia Mononuclear TGLs = 8-6 ]   |             |  |                                  |
| * Lung  |             | Infiltration Cellular<br>Leukemia Mononuclear  | Histiocyte, Minimal              |
| Lymph Node  | Mediastinal | Leukemia Mononuclear   |                                  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 15

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 710

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111980

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 9-3 ]		
	[ Leukemia Mononuclear TGLs = 6-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 7-5 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
	Note: PANCREATIC ATROPHY IS VISIBLE MAINLY ON SLIDE 24.		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	[ Hyperplasia TGLs = 11-1 ]		
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 10-23 ]		
	[ Ulcer TGLs = 10-23 ]		
* Spleen		Accessory Spleen	
		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
		Necrosis	Marked
	[ Accessory Spleen TGLs = 2-21 ]		
	[ Hematopoietic Cell Proliferation TGLs = 4-6 ]		
	[ Leukemia Mononuclear TGLs = 4-6 ]		
	[ Necrosis TGLs = 3-22 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 1-7 ]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Islets, Pancreatic Carcinoma

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 15

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 710

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111980

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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- Pituitary Gland Pars Distalis Hyperplasia

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 16

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 111981

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Nose                   | * Parathyroid Gland        | Peripheral Nerve          | * Preputial Gland           |
| * Salivary Glands        | * Seminal Vesicle          | Spinal Cord               | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**MISSING**

- |             |                          |
|-------------|--------------------------|
| * Esophagus | * Lymph Node, Mandibular |
|-------------|--------------------------|

**OBSERVATIONS**

- |                          |  |                  |
|--------------------------|--|------------------|
| * Heart                  | Cardiomyopathy                                 | Moderate         |
| * Kidney                 | Inflammation                                   | Chronic, Mild    |
|                          | Nephropathy                                    | Mild             |
| * Liver                  | Basophilic Focus                               |                  |
|                          | Clear Cell Focus                               |                  |
|                          | Mixed Cell Focus                               |                  |
|                          | [ Mixed Cell Focus TGLs = 3-21 ]               |                  |
| * Lymph Node, Mesenteric | Hyperplasia                                    | Lymphoid, Mild   |
| * Mammary Gland          | Hyperplasia                                    | Mild             |
|                          | [ Hyperplasia TGLs = 1-8 ]                     |                  |
| * Pancreas               | Atrophy  | Marked           |
|                          | Cyst   |                  |
|                          | Hyperplasia                                    | Focal, Mild      |
|                          | Acinus   |                  |
|                          | Note: FOCAL HYPERPLASIA IS PRESENT ON SLIDE 4. |                  |
| * Pituitary Gland        | Pars Distalis                                  | Focal, Moderate  |
| * Prostate               | Inflammation                                   | Chronic, Minimal |
| * Skin                   | Hyperplasia                                    | Marked           |
|                          | Ulcer  | Marked           |
|                          | [ Hyperplasia TGLs = 4-22 ]                    |                  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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**ANIMAL NUM:** 16

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111981

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Ulcer TGLs = 4-22 ]

\* Spleen

\* Testes

Interstit Cell  
Germinal Epith

Hematopoietic Cell Proliferation

Adenoma

Atrophy

Mild

Minimal

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[ Adenoma TGLs = 2-7 ]

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 17

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111982

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nose                     | * Parathyroid Gland       |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**OBSERVATIONS**

- |                   |                             |                                  |                     |
|-------------------|-----------------------------|----------------------------------|---------------------|
| * Adrenal Cortex  |                             | Degeneration                     | Fatty, Minimal      |
|                   |                             | Hyperplasia                      | Focal, Minimal      |
| * Kidney          |                             | Inflammation                     | Chronic, Moderate   |
|                   |                             | Nephropathy                      | Moderate            |
| * Liver           |                             | Clear Cell Focus                 |                     |
|                   | Bile Duct                   | Hyperplasia                      | Minimal             |
| * Lung            |                             | Hemorrhage                       | Mild                |
|                   |                             | Infiltration Cellular            | Histiocyte, Minimal |
| * Mammary Gland   |                             | Hyperplasia                      | Mild                |
|                   | [ Hyperplasia TGLs = 1-8 ]  |                                  |                     |
| * Pancreas        |                             | Atrophy                          | Minimal             |
| * Pituitary Gland | Pars Distalis               | Angiectasis                      | Minimal             |
|                   | Pars Distalis               | Hyperplasia                      | Focal, Mild         |
|                   | [ Angiectasis TGLs = 5-1 ]  |                                  |                     |
|                   | [ Hyperplasia TGLs = 5-1 ]  |                                  |                     |
| * Skin            | Epidermis                   | Hyperplasia                      | Moderate            |
|                   |                             | Ulcer                            | Moderate            |
|                   | [ Hyperplasia TGLs = 4-21 ] |                                  |                     |
|                   | [ Ulcer TGLs = 4-21 ]       |                                  |                     |
| * Spleen          |                             | Hematopoietic Cell Proliferation | Mild                |
| * Testes          | Bilateral, Interstit Cell   | Adenoma                          |                     |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 17

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111982

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 3-7 ]

Germinal Epith

Atrophy

Moderate

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 18

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 111983

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Nose                     | * Parathyroid Gland       | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |   |  |  |
|--|---|--|--|
| * Adrenal Cortex                                 |   | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hyperplasia<br>Compression                  | Fatty, Minimal<br>Focal, Minimal<br>Mild |
| * Brain  | [ Compression TGLs = 5-1 ]                                  |  |  |
| * Heart  |   | Cardiomyopathy   | Moderate                                 |
| * Kidney   |   | Nephropathy  | Moderate                                 |
| * Liver  |   | Basophilic Focus<br>Clear Cell Focus<br>Hyperplasia<br>Infiltration Cellular<br>Mixed Cell Focus | Minimal<br>Mixed Cell, Minimal           |
|  | Bile Duct   |  |  |
| Note: CLEAR CELL FOCI ARE PRIMARILY ON SLIDE 23. |   |  |  |
| Lymph Node                                       |   |  |  |
| Note: LYMPH NODE, MEDIASTINAL - MISSING.         |   |  |  |
| * Mammary Gland                                  |   | Fibroadenoma<br>Hyperplasia  | Marked                                   |
|  | [ Fibroadenoma TGLs = 1-21 ]<br>[ Hyperplasia TGLs = 2-22 ] |  |  |
| * Pancreas                                       |   | Atrophy  | Minimal                                  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 18

TMT: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111983

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 6-1 ]	Acinus Pars Distalis	Hyperplasia Adenoma	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes [ Adenoma TGLs = 3-7 ]	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 19

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 111984

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

* Intestine Large, Colon	* Lymph Node, Mandibular
--------------------------	--------------------------

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Brain		Compression	Moderate
	[ Compression TGLs = 5-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Marked
	[ Inflammation TGLs = 1-5 ]		
	[ Nephropathy TGLs = 1-5 ]		
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
	Hepatocyte		
	[ Hepatodiaphragmatic Nodule TGLs = 4-21 ]		
	[ Leukemia Mononuclear TGLs = 3-6 ]		
	Lymph Node	Leukemia Mononuclear	
* Mammary Gland	Mediastinal	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 19

TMT: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111984

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
[ Inflammation TGLs = 2-7-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
Note: THE MONONUCLEAR LEUKEMIA APPEARS TO BE IN AN EARLY STAGE.			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

**ANIMAL NUM:** 20

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 573  
**HISTO:** 111985

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 5-1 ]		
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Islets, Pancreatic		Carcinoma	
	[ Carcinoma TGLs = 2-21 ]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Hyperplasia TGLs = 3-6 ]		
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-2 ]		
Lymph Node			
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 20

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 573

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 111985

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Ulcer	Moderate
	[ Ulcer TGLs = 6-22 ]		
* Stomach, Glandular		Erosion	Minimal
	[ Erosion TGLs = 6-4 ]		
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Islets, Pancreatic Carcinoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 21

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 659  
**HISTO:** 111986

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Minimal
	[ Angiectasis TGLs = 4-1 ]		
* Preputial Gland		Adenoma	
	[ Adenoma TGLs = 1-21 ]		
* Skin		Fibroma	
	[ Fibroma TGLs = 2-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Skin Fibroma

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 22

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111987

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Mammary Gland           | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                                      |                      |                 |
|----------------------|--------------------------------------|----------------------|-----------------|
| * Adrenal Cortex     |                                      | Degeneration         | Fatty, Mild     |
|                      |                                      | Hyperplasia          | Focal, Mild     |
|                      |                                      | Leukemia Mononuclear |                 |
|                      | [ Leukemia Mononuclear TGLs = 5-10 ] |                      |                 |
| * Adrenal Medulla    |                                      | Hyperplasia          | Mild            |
|                      |                                      | Leukemia Mononuclear |                 |
|                      | [ Leukemia Mononuclear TGLs = 5-10 ] |                      |                 |
| * Bone Marrow        |                                      | Leukemia Mononuclear |                 |
| * Heart              |                                      | Cardiomyopathy       | Moderate        |
|                      |                                      | Leukemia Mononuclear |                 |
| * Islets, Pancreatic |                                      | Adenoma              |                 |
| * Kidney             |                                      | Leukemia Mononuclear |                 |
|                      |                                      | Nephropathy          | Moderate        |
|                      | [ Leukemia Mononuclear TGLs = 6-5 ]  |                      |                 |
|                      | [ Nephropathy TGLs = 6-5 ]           |                      |                 |
| * Liver              |                                      | Degeneration         | Cystic, Minimal |
|                      |                                      | Hyperplasia          | Moderate        |
|                      | Bile Duct                            | Leukemia Mononuclear |                 |
|                      | [ Hyperplasia TGLs = 9-6 ]           |                      |                 |
|                      | [ Leukemia Mononuclear TGLs = 9-6 ]  |                      |                 |
| * Lung               |                                      | Leukemia Mononuclear |                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 22

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111987

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear Lymph Node	TGLs = 12-2 ] Pancreatic Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	
[ Leukemia Mononuclear * Lymph Node, Mesenteric	TGLs = 3-7 ] TGLs = 10-23 ]	Leukemia Mononuclear	
[ Leukemia Mononuclear Mesentery	TGLs = 4-21,7-21 ]	Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7 AND 7-1.			
* Nose		Foreign Body	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear * Testes	TGLs = 2-6 ] Germinal Epith	Atrophy	Marked
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
[ Adenoma	TGLs = 11-3 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 23

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 601  
**HISTO:** 111988

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Kidney	* Lung	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	Tongue	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Thyroid Gland	

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
		Inflammation	Chronic, Moderate
Note: NO CORRELATING LESION TGL-4.			
* Liver	Centrilobular	Necrosis	Mild
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 21. [ Mesothelioma Malignant TGLs = 1-21 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Minimal
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 23

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 601

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 111988

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 3-7 ]

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**PRIMARY CAUSE OF DEATH** - Mesentery Mesothelioma Malignant

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 24

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 659  
**HISTO:** 111989

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Marked
	[ Compression TGLs = 4-1 ]		
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia Mixed Cell Focus	Mild
	[ Mixed Cell Focus TGLs = 2-21 ]		
Lymph Node	Mediastinal	Hemorrhage	Moderate
	[ Hemorrhage TGLs = 3-3 ]		
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 24

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 659

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111989

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLs = 1-7 ]

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 25

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 694

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111990

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone                   | * Epididymis               | * Esophagus               | * Eye                       |
| * Harderian Gland        | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Nose                      |
| * Parathyroid Gland      | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                       |                     |
|--------------------------|--|-----------------------|---------------------|
| * Adrenal Cortex         |  | Degeneration          | Fatty, Mild         |
| * Adrenal Medulla        |  | Hyperplasia           | Mild                |
| * Bone Marrow            |  | Leukemia Mononuclear  |                     |
| * Brain                  |  | Compression           | Mild                |
|                          | [ Compression TGLs = 9-1 ]               |                       |                     |
| * Heart                  |  | Cardiomyopathy        | Moderate            |
| * Intestine Large, Cecum |  | Edema                 | Mild                |
| * Kidney                 |  | Nephropathy           | Mild                |
| * Liver                  |  | Basophilic Focus      |                     |
|                          | Bile Duct                                | Hyperplasia           | Mild                |
|                          | [ Leukemia Mononuclear TGLs = 6-6 ]      | Leukemia Mononuclear  |                     |
| * Lung                   |  | Infiltration Cellular | Histiocyte, Minimal |
|                          |  | Inflammation          | Chronic, Minimal    |
| Lymph Node               |  | Ectasia               | Moderate            |
|                          | Mediastinal                              | Leukemia Mononuclear  |                     |
|                          | Mediastinal                              |                       |                     |
|                          | [ Ectasia TGLs = 5-3 ]                   |                       |                     |
|                          | [ Leukemia Mononuclear TGLs = 5-3 ]      |                       |                     |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear  |                     |
|                          | [ Leukemia Mononuclear TGLs = 3-5,4-21 ] |                       |                     |
| * Mammary Gland          |  | Hyperplasia           | Minimal             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 25

TMT: 1

SEX: Male

DAY ON TEST: 694

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 111990

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
[ Carcinoma TGLs = 8-1 ]		Carcinoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 2-6 ]			
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLs = 1-7 ]	Interstit Cell	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	
[ Carcinoma TGLs = 7-22,7-22-1 ]			

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma  
- Spleen Leukemia Mononuclear



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 26

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 111991

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Parathyroid Gland       | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |   |                       |                     |
|----------------------|---|-----------------------|---------------------|
| * Adrenal Cortex     |   | Carcinoma             |                     |
|                      |   | Hypertrophy           | Focal, Minimal      |
|                      |   | Leukemia Mononuclear  |                     |
|                      | [ Carcinoma TGLs = 5-10 ]                 |                       |                     |
| * Adrenal Medulla    |   | Leukemia Mononuclear  |                     |
| * Bone Marrow        |   | Leukemia Mononuclear  |                     |
| * Heart              |   | Cardiomyopathy        | Mild                |
|                      |   | Thrombosis            | Minimal             |
| * Islets, Pancreatic |   | Hyperplasia           | Minimal             |
| * Kidney             |   | Leukemia Mononuclear  |                     |
|                      |   | Nephropathy           | Mild                |
| * Liver              |   | Basophilic Focus      |                     |
|                      |   | Degeneration          | Cystic, Minimal     |
|                      |   | Eosinophilic Focus    |                     |
|                      | Bile Duct                                 | Hyperplasia           | Mild                |
|                      |   | Leukemia Mononuclear  |                     |
|                      | Note: CYSTIC DEGENERATION IS ON SLIDE 22. |                       |                     |
| * Lung               |   | Infiltration Cellular | Histiocyte, Minimal |
|                      |   | Leukemia Mononuclear  |                     |
| Lymph Node           | Mediastinal                               | Leukemia Mononuclear  |                     |
|                      | Pancreatic                                | Leukemia Mononuclear  |                     |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 26

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111991

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 8-3 ]		
	[ Leukemia Mononuclear TGLs = 3-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 9-8 ]		
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland		Adenoma	Multiple
	[ Adenoma TGLs = 10-1 ]		
* Preputial Gland		Carcinoma	
	[ Carcinoma TGLs = 1-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Testes		Adenoma	
	Interstit Cell	Atrophy	Moderate
	Germinal Epith		
	[ Adenoma TGLs = 2-7 ]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Adenoma	
	C Cell		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 27

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 671

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111992

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Moderate
* Adrenal Medulla		Leukemia Mononuclear Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 13-1 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
	[ Hyperplasia TGLs = 8-6 ]		
	[ Leukemia Mononuclear TGLs = 8-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 11-3 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 27

TMT: 1

SEX: Male

DAY ON TEST: 671

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 111992

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Leukemia Mononuclear TGLs = 9-5 ]		
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Leukemia Mononuclear	
		Mesothelioma Malignant	
	Fat	Necrosis	Marked
Note: MESOTHELIOMA IS ON SLIDES 7, 7-1, AND 25.			
	[ Leukemia Mononuclear TGLs = 5-22 ]		
	[ Mesothelioma Malignant TGLs = 3-25 ]		
	[ Necrosis TGLs = 4-21 ]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	[ Adenoma TGLs = 12-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Moderate
* Skin		Fibroma	
	[ Fibroma TGLs = 10-24 ]		
Spinal Cord		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[ Leukemia Mononuclear TGLs = 6-26 ]		
	[ Necrosis TGLs = 7-23 ]		
* Stomach, Glandular		Edema	Moderate
		Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
	[ Adenoma TGLs = 1-7 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 27

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 671

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111992

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Atrophy TGLs = 2-7 ]

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 28

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 616  
**HISTO:** 111993

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Mammary Gland             | * Pancreas               | * Parathyroid Gland        | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Thymus                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Thyroid Gland

**OBSERVATIONS**

- |   |             |   |             |
|---|-------------|---|-------------|
| * Adrenal Cortex  |             | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Mild |
| * Adrenal Medulla   |             | Pheochromocytoma Benign                           |             |
| * Bone Marrow   |             | Leukemia Mononuclear<br>Myelofibrosis             | Mild        |
| * Brain   |             | Necrosis  | Mild        |
| * Heart   |             | Cardiomyopathy                                    | Moderate    |
| Note: CARDIOMYOPATHY IS PRESENT ON SLIDES 12 AND 22.<br>[ Cardiomyopathy TGLs = 11-22 ]                       |             |   |             |
| * Kidney  |             | Nephropathy                                       | Minimal     |
| * Liver   | Bile Duct   | Hyperplasia                                       | Moderate    |
|   | Hepatocyte  | Leukemia Mononuclear<br>Vacuolization Cytoplasmic | Moderate    |
| [ Hyperplasia TGLs = 8-6 ]<br>[ Leukemia Mononuclear TGLs = 8-6 ]<br>[ Vacuolization Cytoplasmic TGLs = 8-6 ] |             |   |             |
| * Lung  |             | Leukemia Mononuclear                              |             |
| Lymph Node  | Mediastinal | Leukemia Mononuclear                              |             |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 28

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 616  
**HISTO:** 111993

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 10-3 ]		
	[ Leukemia Mononuclear TGLs = 4-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 5-5 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 7-21 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Mild
	[ Hyperplasia TGLs = 12-4 ]		
	[ Ulcer TGLs = 12-4 ]		
* Stomach, Glandular		Erosion	Mild
	[ Erosion TGLs = 12-4 ]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLs = 2-7 ]		

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 29

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111994

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                                     |                      |                      |
|-------------------|-------------------------------------|----------------------|----------------------|
| * Adrenal Cortex  |                                     | Degeneration         | Fatty, Minimal       |
|                   |                                     | Hypertrophy          | Focal, Mild          |
| * Adrenal Medulla |                                     | Hyperplasia          | Minimal              |
| * Bone Marrow     |                                     | Leukemia Mononuclear |                      |
| * Heart           |                                     | Cardiomyopathy       | Moderate             |
| * Kidney          |                                     | Inflammation         | Chronic, Moderate    |
|                   |                                     | Nephropathy          | Moderate             |
| * Liver           |                                     | Basophilic Focus     |                      |
|                   |                                     | Clear Cell Focus     |                      |
|                   |                                     | Degeneration         | Cystic, Mild         |
|                   |                                     | Eosinophilic Focus   |                      |
|                   | Bile Duct                           | Hyperplasia          | Mild                 |
|                   |                                     | Leukemia Mononuclear |                      |
|                   | [ Hyperplasia TGLs = 4-6 ]          |                      |                      |
|                   | [ Leukemia Mononuclear TGLs = 4-6 ] |                      |                      |
|                   | Lymph Node                          | Leukemia Mononuclear |                      |
| * Mammary Gland   | Mediastinal                         | Hyperplasia          | Mild                 |
|                   | [ Hyperplasia TGLs = 2-8 ]          |                      |                      |
| * Nose            |                                     | Foreign Body         |                      |
|                   |                                     | Inflammation         | Chronic, Minimal     |
|                   | Olfactory Epi                       | Metaplasia           | Respiratory, Minimal |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 29

TMT: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111994

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 5-1 ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Salivary Glands		Atrophy	Minimal
* Skin [ Keratoacanthoma TGLs = 1-21 ]		Keratoacanthoma	
* Spleen		Leukemia Mononuclear	
* Testes [ Adenoma TGLs = 3-7 ]	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 30

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 111995

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Brain                  | * Epididymis               |
| * Esophagus               | * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                            |                |  |                               |
|----------------------------|----------------|--|-------------------------------|
| * Adrenal Cortex           |                | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hyperplasia | Fatty, Mild<br>Focal, Minimal |
| * Adrenal Medulla          |                | Hyperplasia  | Minimal                       |
| * Harderian Gland          |                | Hyperplasia  | Focal, Minimal                |
| * Heart                    |                | Cardiomyopathy   | Minimal                       |
| * Kidney                   |                | Inflammation<br>Nephropathy                                      | Chronic, Moderate<br>Moderate |
| * Liver                    |                | Basophilic Focus<br>Clear Cell Focus                             |                               |
|                            | Bile Duct      | Hyperplasia  | Mild                          |
| Lymph Node                 | Pancreatic     | Ectasia  | Marked                        |
| [ Ectasia TGLs = 3-7 ]     |                |  |                               |
| * Nose                     | Respirat Epith | Hyperplasia<br>Inflammation                                      | Minimal<br>Chronic, Minimal   |
| * Pancreas                 |                | Atrophy  | Minimal                       |
| * Pituitary Gland          | Pars Distalis  | Hyperplasia  | Focal, Moderate               |
| [ Hyperplasia TGLs = 7-1 ] |                |  |                               |
| * Preputial Gland          |                | Carcinoma<br>Inflammation  | Chronic, Mild                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 30

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 111995

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	[ Carcinoma TGLs = 1-21 ]	SOA Epidermis	Hyperkeratosis Hyperplasia Ulcer	Minimal Moderate Moderate
* Spleen	[ Hyperplasia TGLs = 5-22 ] [ Ulcer TGLs = 5-22 ]	Lymph Follic	Hyperplasia	Mild
* Testes	[ Hyperplasia TGLs = 4-6 ]	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal
* Thyroid Gland	[ Adenoma TGLs = 2-7 ]	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 31

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 111996

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Moderate
	[ Compression TGLs = 8-1 ]		
* Eye		Cataract	Moderate
	[ Cataract TGLs = 7-44 ]	Degeneration	Marked
	Retina		
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 4-5 ]	Nephropathy	Moderate
	[ Nephropathy TGLs = 4-5 ]		
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
		Necrosis	Focal, Mild
	Kupffer Cell	Pigmentation	Mild
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 31

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111996

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node

Note: LYMPH NODE, MEDIASTINAL - MISSING.

\* Lymph Node, Mesenteric

Ectasia

Minimal

Leukemia Mononuclear

Hyperplasia

Moderate

\* Mammary Gland

[ Hyperplasia TGLs = 1-8 ]

\* Nose

Respirat Epith

Foreign Body

Hyperplasia

Minimal

Inflammation

Chronic, Mild

\* Pancreas

Atrophy

Minimal

Cyst

\* Pituitary Gland

Pars Distalis

Adenoma

[ Adenoma TGLs = 9-1 ]

\* Preputial Gland

Inflammation

Chronic, Mild

\* Prostate

Inflammation

Chronic, Mild

\* Skin

[ Squamous Cell Carcinoma TGLs = 6-21 ]

Squamous Cell Carcinoma

\* Spleen

Leukemia Mononuclear

\* Testes

Bilateral, Interstit Cell

Adenoma

Germinal Epith

Atrophy

Mild

[ Adenoma TGLs = 2-7 ]

\* Thyroid Gland

Follicle

Cyst

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 32

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 708  
**HISTO:** 111997

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                          |                           |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Bone                   | * Epididymis               | * Esophagus              | * Eye                     |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Nose                   | * Parathyroid Gland       |
| * Salivary Glands        | * Seminal Vesicle          | * Thymus                 | * Trachea                 |
| * Urinary Bladder        |                            |                          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                             |   |                            |                 |
|-----------------------------|---|----------------------------|-----------------|
| * Adrenal Cortex            |   | Degeneration               | Fatty, Moderate |
|                             |   | Hypertrophy                | Focal, Minimal  |
| * Adrenal Medulla           |   | Hyperplasia                | Mild            |
| * Bone Marrow               |   | Leukemia Mononuclear       |                 |
| * Brain                     |   | Compression                | Marked          |
|                             | [ Compression TGLs = 8-1 ]                  |                            |                 |
| * Heart                     |   | Cardiomyopathy             | Minimal         |
| * Intestine Small, Duodenum | Epithelium                                  | Hyperplasia                | Mild            |
| * Islets, Pancreatic        |   | Hyperplasia                | Minimal         |
| * Kidney                    |   | Leukemia Mononuclear       |                 |
|                             |   | Nephropathy                | Moderate        |
| * Liver                     |   | Hepatodiaphragmatic Nodule |                 |
|                             | Bile Duct                                   | Hyperplasia                | Mild            |
|                             |   | Leukemia Mononuclear       |                 |
|                             | [ Hepatodiaphragmatic Nodule TGLs = 11-23 ] |                            |                 |
|                             | [ Hyperplasia TGLs = 5-6 ]                  |                            |                 |
|                             | [ Leukemia Mononuclear TGLs = 5-6 ]         |                            |                 |
| * Lung                      |   | Leukemia Mononuclear       |                 |
| Lymph Node                  |   |                            |                 |
|                             | Note: LYMPH NODE, MEDIASTINAL - MISSING.    |                            |                 |
| * Lymph Node, Mesenteric    |   | Leukemia Mononuclear       |                 |
| * Mammary Gland             |   | Hyperplasia                | Marked          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 32

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 111997

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Hyperplasia TGLs = 1-8,2-21,3-22 ]		
* Pancreas		Cyst	
	Acinus	Cytoplasmic Alteration	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 9-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 7-7-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Marked
	[ Ulcer TGLs = 10-4 ]		
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
 - Stomach, Forestomach Ulcer

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 33

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 111998

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Mammary Gland             | * Parathyroid Gland      | * Preputial Gland          | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                      |   |               |
|--------------------------|--------------------------------------|---|---------------|
| * Adrenal Cortex         |                                      | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Mild   |
| * Adrenal Medulla        |                                      | Pheochromocytoma Benign                           | Multiple      |
| * Bone Marrow            |                                      | Leukemia Mononuclear                              |               |
| * Brain                  |                                      | Compression                                       | Minimal       |
|                          | [ Compression TGLs = 7-1 ]           |   |               |
| * Heart                  |                                      | Cardiomyopathy                                    | Moderate      |
| * Kidney                 |                                      | Inflammation                                      | Chronic, Mild |
|                          |                                      | Nephropathy                                       | Moderate      |
| * Liver                  |                                      | Basophilic Focus                                  |               |
|                          |                                      | Eosinophilic Focus                                |               |
|                          | Bile Duct                            | Hyperplasia                                       | Mild          |
| * Lung                   |                                      | Leukemia Mononuclear                              |               |
| Lymph Node               | Pancreatic                           | Alveolar/Bronchiolar Adenoma                      |               |
|                          | Pancreatic                           | Ectasia   | Marked        |
|                          | Mediastinal                          | Leukemia Mononuclear                              |               |
|                          |                                      | Leukemia Mononuclear                              |               |
|                          | [ Ectasia TGLs = 2-24 ]              |   |               |
|                          | [ Leukemia Mononuclear TGLs = 2-24 ] |   |               |
| * Lymph Node, Mesenteric |                                      | Leukemia Mononuclear                              |               |
| Mesentery                |                                      | Accessory Spleen                                  |               |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 33

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 111998

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Accessory Spleen TGLs = 1-21 ]		
* Nose		Respirat Epith	Foreign Body Hyperplasia Inflammation
			Minimal Chronic, Minimal
* Pancreas			Cyst
* Pituitary Gland		Pars Distalis	Adenoma
	[ Adenoma TGLs = 6-1 ]		
* Prostate			Inflammation
* Skin		SOA	Hyperkeratosis
		Epidermis	Hyperplasia
			Squamous Cell Papilloma
			Ulcer
			Chronic, Moderate Minimal Marked Moderate
	[ Hyperplasia TGLs = 4-22 ]		
	[ Squamous Cell Papilloma TGLs = 5-23 ]		
	[ Ulcer TGLs = 4-22 ]		
* Spleen			Leukemia Mononuclear
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Testes		Interstit Cell	Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 34

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 653  
**HISTO:** 111999

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Mammary Gland           | * Nose                      | * Parathyroid Gland      |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                     |                      |                 |
|--------------------------|-------------------------------------|----------------------|-----------------|
| * Adrenal Cortex         |                                     | Leukemia Mononuclear |                 |
| * Adrenal Medulla        |                                     | Hyperplasia          | Moderate        |
| * Bone Marrow            |                                     | Leukemia Mononuclear |                 |
| * Islets, Pancreatic     |                                     | Adenoma              |                 |
| * Kidney                 | Renal Tubule                        | Infarct              | Mild            |
|                          |                                     | Necrosis             | Marked          |
|                          |                                     | Nephropathy          | Mild            |
|                          | [ Necrosis TGLs = 5-5 ]             |                      |                 |
| * Liver                  | Bile Duct                           | Eosinophilic Focus   |                 |
|                          |                                     | Hyperplasia          | Moderate        |
|                          |                                     | Leukemia Mononuclear |                 |
|                          | [ Eosinophilic Focus TGLs = 10-22 ] |                      |                 |
|                          | [ Hyperplasia TGLs = 7-6 ]          |                      |                 |
|                          | [ Leukemia Mononuclear TGLs = 7-6 ] |                      |                 |
| * Lung                   |                                     | Leukemia Mononuclear |                 |
| Lymph Node               | Mediastinal                         | Leukemia Mononuclear |                 |
|                          | [ Leukemia Mononuclear TGLs = 9-3 ] |                      |                 |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear |                 |
|                          | [ Leukemia Mononuclear TGLs = 6-5 ] |                      |                 |
| * Pancreas               |                                     | Atrophy              | Moderate        |
| * Pituitary Gland        | Pars Distalis                       | Hyperplasia          | Focal, Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 34

TMT: 1

SEX: Male

DAY ON TEST: 653

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 111999

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 3-6 ]			
* Stomach, Forestomach		Erosion	Mild
* Stomach, Glandular		Erosion	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLs = 2-7 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 35

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112000

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Nose                     | * Parathyroid Gland       | * Salivary Glands           | * Seminal Vesicle        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |   |   |  |
|-------------------|---|---|--|
| * Adrenal Cortex  |   | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hyperplasia<br>Compression | Fatty, Minimal<br>Focal, Minimal<br>Marked |
| * Brain           | [ Compression TGLs = 10-1 ]                             |   |  |
| * Heart           |   | Cardiomyopathy  | Moderate                                   |
| * Kidney          |   | Nephropathy   | Moderate                                   |
| * Liver           |   | Basophilic Focus<br>Eosinophilic Focus  |  |
| Lymph Node        | Mediastinal<br>Mediastinal                              | Hemorrhage<br>Hyperplasia   | Moderate<br>Lymphoid, Moderate             |
|                   | [ Hemorrhage TGLs = 5-3 ]<br>[ Hyperplasia TGLs = 5-3 ] |   |  |
| * Mammary Gland   | [ Hyperplasia TGLs = 2-8 ]                              | Hyperplasia   | Marked                                     |
| * Pancreas        |   | Atrophy   | Marked                                     |
| * Pituitary Gland | Pars Distalis<br>[ Adenoma TGLs = 9-1 ]                 | Adenoma   |  |
| * Preputial Gland |   | Inflammation  | Chronic, Mild                              |
| * Prostate        |   | Inflammation  | Chronic, Mild                              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 35

TMT: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112000

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	[ Inflammation TGLs = 4-7-1 ]		Fibrosarcoma	
		SOA	Hyperkeratosis	Mild
		Epidermis	Hyperplasia	Marked
			Ulcer	Marked
	[ Fibrosarcoma TGLs = 1-21 ]			
	[ Hyperplasia TGLs = 7-22,8-23 ]			
	[ Ulcer TGLs = 7-22,8-23 ]			
* Spleen			Hematopoietic Cell Proliferation	Mild
			Necrosis	Minimal
* Testes		Interstit Cell	Adenoma	
		Germinal Epith	Atrophy	Minimal
		Artery	Inflammation	Chronic, Mild
	[ Adenoma TGLs = 3-7 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 36

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 537  
**HISTO:** 112001

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
	[ Hyperplasia TGLs = 2-21,3-22 ]		
	[ Ulcer TGLs = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Ulcer

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 37

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 664

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 112002

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Nose                     |
| * Parathyroid Gland       | Peripheral Nerve            | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | Spinal Cord              | * Stomach, Forestomach     |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Thyroid Gland

**OBSERVATIONS**

- |  |  |                                   |         |
|--|--|-----------------------------------|---------|
| * Adrenal Cortex                                   |  | Accessory Adrenal Cortical Nodule |         |
| * Adrenal Medulla                                  |  | Pheochromocytoma Benign           |         |
| * Bone   |  | Osteosarcoma                      |         |
| Note: OSTEOSARCOMA IS VISIBLE ON SLIDES 12 AND 21. |  |                                   |         |
|  | [ Osteosarcoma TGLs = 3-21 ]           |                                   |         |
| * Heart  |  | Cardiomyopathy                    | Minimal |
| * Kidney   |  | Nephropathy                       | Minimal |
| * Liver  |  | Eosinophilic Focus                |         |
|  |  | Hepatocellular Adenoma            |         |
|  | Bile Duct                              | Hyperplasia                       | Mild    |
|  | [ Hepatocellular Adenoma TGLs = 4-22 ] |                                   |         |
| * Mammary Gland                                    |  | Hyperplasia                       | Mild    |
| * Pancreas   |  | Atrophy                           | Minimal |
| * Pituitary Gland                                  | Pars Distalis                          | Adenoma                           |         |
|  | [ Adenoma TGLs = 2-1 ]                 |                                   |         |
| * Skin   | SOA                                    | Hyperkeratosis                    | Minimal |
| * Spleen   |  | Hematopoietic Cell Proliferation  | Mild    |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 37

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 664

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 112002

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Glandular

Erosion

Minimal

\* Testes

Interstit Cell

Adenoma

[ Adenoma TGLs = 1-7 ]

---

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 38

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 639  
 HISTO: 112003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Liver		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 5-6 ]		
* Lung		Hemorrhage	Mild
	[ Hemorrhage TGLs = 6-2 ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 8-3 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 9-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 7-1 ]		
* Prostate		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 2-7-1 ]		
* Skin		Basal Cell Carcinoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 38

TMT: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 112003

ORGAN AND ACCOUNTABLE SITE STATUS

	SOA	Hyperkeratosis	Minimal
[ Basal Cell Carcinoma	TGLs = 1-21 ]		
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
[ Hemorrhage	TGLs = 4-22 ]		
[ Leukemia Mononuclear	TGLs = 3-6 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
- Skin Basal Cell Carcinoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 39

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 112004

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                   | * Bone Marrow               | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Mammary Gland          | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle        | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Trachea                | * Urinary Bladder           |                          |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |  |                |                       |                     |
|--|----------------|-----------------------|---------------------|
| * Adrenal Cortex                         |                | Degeneration          | Fatty, Mild         |
|  |                | Hyperplasia           | Focal, Minimal      |
| * Heart                                  |                | Cardiomyopathy        | Mild                |
| * Islets, Pancreatic                     |                | Adenoma               |                     |
| * Kidney                                 |                | Inflammation          | Chronic, Mild       |
|  |                | Nephropathy           | Moderate            |
| * Liver                                  |                | Clear Cell Focus      |                     |
|  | Bile Duct      | Hyperplasia           | Minimal             |
| * Lung                                   |                | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node                               |                |                       |                     |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                |                       |                     |
| * Lymph Node, Mesenteric                 |                | Hemorrhage            | Mild                |
| * Nose                                   |                | Foreign Body          |                     |
|  | Respirat Epith | Hyperplasia           | Minimal             |
|  |                | Inflammation          | Chronic, Mild       |
|  | Olfactory Epi  | Metaplasia            | Respiratory, Mild   |
| * Pancreas                               |                | Atrophy               | Mild                |
| * Pituitary Gland                        | Pars Distalis  | Adenoma               |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 39

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112004

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Pars Distalis	Hyperplasia	Focal, Moderate
	Pars Nervosa	Infiltration Cellular	Mixed Cell, Minimal
[ Adenoma TGLs = 2-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Control	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
	Control Epider	Hyperplasia	Minimal
		Ulcer	Moderate
[ Hyperplasia TGLs = 3-21 ]			
[ Ulcer TGLs = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[ Adenoma TGLs = 1-7 ]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 40

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112005

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Nose                     |
| * Parathyroid Gland       | * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                            |                           |                              |
|-------------------|----------------------------|---------------------------|------------------------------|
| * Adrenal Cortex  |                            | Degeneration              | Fatty, Minimal               |
| * Adrenal Medulla |                            | Hyperplasia               | Mild                         |
| * Brain           |                            | Carcinoma                 | Metastatic (Pituitary Gland) |
|                   |                            | Compression               | Marked                       |
|                   | [ Compression TGLs = 8-1 ] |                           |                              |
| * Heart           |                            | Cardiomyopathy            | Mild                         |
| * Kidney          |                            | Inflammation              | Chronic, Moderate            |
|                   |                            | Nephropathy               | Marked                       |
| * Liver           |                            | Clear Cell Focus          |                              |
|                   | Bile Duct                  | Hyperplasia               | Minimal                      |
|                   | Hepatocyte                 | Vacuolization Cytoplasmic | Mild                         |
|                   | Mediastinal                | Hemorrhage                | Minimal                      |
|                   | Mediastinal                | Hyperplasia               | Lymphoid, Mild               |
|                   | [ Hemorrhage TGLs = 5-3 ]  |                           |                              |
|                   | [ Hyperplasia TGLs = 5-3 ] |                           |                              |
| * Mammary Gland   |                            | Hyperplasia               | Moderate                     |
|                   | [ Hyperplasia TGLs = 2-8 ] |                           |                              |
| * Pancreas        |                            | Atrophy                   | Moderate                     |
| * Pituitary Gland | Pars Distalis              | Carcinoma                 |                              |
|                   | [ Carcinoma TGLs = 7-1 ]   |                           |                              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 40

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112005

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	[ Inflammation TGLs = 4-7-1 ]		
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 3-7 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 41

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112006

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                           |                          |                            |
|--------------------------|---------------------------|--------------------------|----------------------------|
| * Bone                   | * Bone Marrow             | * Brain                  | * Epididymis               |
| * Esophagus              | * Eye                     | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Nose                    | * Parathyroid Gland      | * Preputial Gland          |
| * Salivary Glands        | * Seminal Vesicle         | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular     | * Thymus                  | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder        |                           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |  |   |   |
|--|--|---|---|
| * Adrenal Cortex                         |  | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Mild                             |
| * Adrenal Medulla                        |  | Hyperplasia                                       | Mild                                    |
| * Heart                                  |  | Cardiomyopathy                                    | Moderate                                |
| * Intestine Small, Duodenum              | Epithelium                               | Hyperplasia                                       | Mild                                    |
| * Kidney                                 |  | Inflammation                                      | Chronic, Moderate                       |
|  |  | Nephropathy                                       | Marked                                  |
|  | [ Inflammation TGLs = 5-5 ]              |   |   |
|  | [ Nephropathy TGLs = 5-5 ]               |   |   |
| * Liver                                  | Hepatocyte                               | Clear Cell Focus<br>Vacuolization Cytoplasmic     | Moderate                                |
|  | [ Vacuolization Cytoplasmic TGLs = 7-6 ] |   |   |
| * Lung                                   |  | Infiltration Cellular<br>Inflammation             | Histiocyte, Minimal<br>Chronic, Minimal |
| Lymph Node                               |  |   |   |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |  |   |   |
| * Lymph Node, Mesenteric                 |  | Ectasia   | Mild                                    |
| * Mammary Gland                          |  | Hyperplasia                                       | Minimal                                 |
|  | [ Hyperplasia TGLs = 1-8 ]               |   |   |
| * Pancreas                               |  | Atrophy   | Mild                                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 41

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 730  
HISTO: 112006

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 8-1 ]	Acinus Pars Distalis	Cytoplasmic Alteration Adenoma	Moderate
* Prostate [ Inflammation TGLs = 4-7-1 ]		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes [ Adenoma TGLs = 3-7 ]	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 42

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112007

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Nose                      | * Parathyroid Gland      |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Trachea                   | * Urinary Bladder        |

**OBSERVATIONS**

- |                          |                            |                                  |                   |
|--------------------------|----------------------------|----------------------------------|-------------------|
| * Adrenal Cortex         |                            | Degeneration                     | Fatty, Minimal    |
| * Adrenal Medulla        |                            | Hyperplasia                      | Mild              |
| * Heart                  |                            | Cardiomyopathy                   | Mild              |
| * Islets, Pancreatic     |                            | Adenoma                          |                   |
| * Kidney                 |                            | Inflammation                     | Chronic, Moderate |
|                          |                            | Nephropathy                      | Moderate          |
| * Liver                  |                            | Basophilic Focus                 |                   |
|                          |                            | Clear Cell Focus                 |                   |
|                          | Bile Duct                  | Hyperplasia                      | Minimal           |
| * Lung                   |                            | Inflammation                     | Chronic, Minimal  |
| * Lymph Node, Mandibular |                            | Ectasia                          | Moderate          |
|                          |                            | Hyperplasia                      | Lymphoid, Mild    |
| * Mammary Gland          |                            | Hyperplasia                      | Moderate          |
|                          |                            |                                  |                   |
|                          | [ Hyperplasia TGLs = 1-8 ] |                                  |                   |
| Mesentery                | Fat                        | Necrosis                         | Mild              |
|                          | [ Necrosis TGLs = 2-21 ]   |                                  |                   |
| * Pancreas               |                            | Atrophy                          | Marked            |
| * Pituitary Gland        | Pars Distalis              | Adenoma                          |                   |
|                          | [ Adenoma TGLs = 3-1 ]     |                                  |                   |
| * Preputial Gland        |                            | Inflammation                     | Chronic, Moderate |
| * Prostate               |                            | Inflammation                     | Chronic, Moderate |
| * Spleen                 |                            | Hematopoietic Cell Proliferation | Minimal           |
| * Stomach, Forestomach   | Epithelium                 | Hyperplasia                      | Minimal           |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 42

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 112007

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 43

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112008

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Bone                      | * Brain                  | * Epididymis               | * Esophagus              |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                      | * Lymph Node, Mesenteric | * Parathyroid Gland        | * Preputial Gland        |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                 |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland          |
| * Trachea                   | * Urinary Bladder        |                            |                          |

**MISSING**

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |  |                                 |                                   |                |
|--|---------------------------------|-----------------------------------|----------------|
| * Adrenal Cortex                         |                                 | Accessory Adrenal Cortical Nodule |                |
|  |                                 | Degeneration                      | Fatty, Minimal |
| * Adrenal Medulla                        |                                 | Hyperplasia                       | Minimal        |
| * Bone Marrow                            |                                 | Hyperplasia                       | Mild           |
| * Heart                                  |                                 | Cardiomyopathy                    | Moderate       |
| * Kidney                                 |                                 | Inflammation                      | Chronic, Mild  |
|  |                                 | Nephropathy                       | Moderate       |
| * Liver                                  |                                 | Basophilic Focus                  |                |
|  |                                 | Clear Cell Focus                  |                |
|  | Bile Duct                       | Hyperplasia                       | Minimal        |
|  | [ Basophilic Focus TGLs = 2-6 ] |                                   |                |
|  | [ Clear Cell Focus TGLs = 2-6 ] |                                   |                |
| Lymph Node                               |                                 |                                   |                |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                 |                                   |                |
| * Nose                                   |                                 | Foreign Body                      |                |
|  | Respirat Epith                  | Hyperplasia                       | Minimal        |
|  |                                 | Inflammation                      | Chronic, Mild  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 43

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112008

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Note: PITUITARY GLAND CYST CONTAINS BLOOD.	Cyst	
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLs = 1-7 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 44

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 650

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112009

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lung                    | * Parathyroid Gland         | Peripheral Nerve         |
| * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           | * Skin                   |
| Spinal Cord                | * Stomach, Glandular      | * Testes                    | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                               |                |                           |                   |
|-------------------------------|----------------|---------------------------|-------------------|
| * Adrenal Medulla             |                | Hyperplasia               | Minimal           |
| * Brain                       |                | Compression               | Marked            |
| [ Compression TGLs = 4-1 ]    |                |                           |                   |
| * Heart                       |                | Cardiomyopathy            | Moderate          |
| * Islets, Pancreatic          |                | Hyperplasia               | Mild              |
| * Kidney                      |                | Nephropathy               | Marked            |
| [ Nephropathy TGLs = 2-5 ]    |                |                           |                   |
| * Liver                       |                | Basophilic Focus          |                   |
|                               | Hepatocyte     | Vacuolization Cytoplasmic | Moderate          |
| * Lymph Node, Mesenteric      |                | Pigmentation              | Moderate          |
| * Mammary Gland               |                | Hyperplasia               | Marked            |
| [ Hyperplasia TGLs = 5-8 ]    |                |                           |                   |
| * Nose                        |                | Foreign Body              |                   |
|                               | Respirat Epith | Hyperplasia               | Mild              |
|                               |                | Inflammation              | Chronic, Moderate |
| * Pancreas                    |                | Atrophy                   | Mild              |
| * Pituitary Gland             | Pars Distalis  | Adenoma                   |                   |
| [ Adenoma TGLs = 3-1 ]        |                |                           |                   |
| * Prostate                    |                | Inflammation              | Chronic, Moderate |
| [ Inflammation TGLs = 1-7-1 ] |                |                           |                   |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 44

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 650

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112009

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate

---

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 45

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112010

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |                                   |                |
|-------------------|--|-----------------------------------|----------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule |                |
|                   |  | Hyperplasia                       | Focal, Minimal |
| * Adrenal Medulla |  | Hyperplasia                       | Minimal        |
| * Bone Marrow     |  | Leukemia Mononuclear              |                |
| * Brain           |  | Compression                       | Minimal        |
|                   | [ Compression TGLs = 12-1 ]              |                                   |                |
| * Heart           |  | Cardiomyopathy                    | Moderate       |
| * Kidney          |  | Nephropathy                       | Minimal        |
| * Liver           |  | Basophilic Focus                  |                |
|                   | Bile Duct                                | Hyperplasia                       | Mild           |
|                   |  | Leukemia Mononuclear              |                |
|                   | Hepatocyte                               | Mixed Cell Focus                  |                |
|                   |  | Vacuolization Cytoplasmic         | Moderate       |
|                   | [ Hyperplasia TGLs = 5-6 ]               |                                   |                |
|                   | [ Leukemia Mononuclear TGLs = 5-6 ]      |                                   |                |
|                   | [ Mixed Cell Focus TGLs = 5-6 ]          |                                   |                |
|                   | [ Vacuolization Cytoplasmic TGLs = 5-6 ] |                                   |                |
| * Lung            |  | Leukemia Mononuclear              |                |
|                   | [ Leukemia Mononuclear TGLs = 7-2 ]      |                                   |                |
| Lymph Node        | Mediastinal                              | Ectasia                           | Moderate       |
|                   | Mediastinal                              | Leukemia Mononuclear              |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 45

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112010

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Ectasia TGLs = 6-3 ]		
	[ Leukemia Mononuclear TGLs = 6-3 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery		Accessory Spleen	
	[ Accessory Spleen TGLs = 3-21 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland		Adenoma	
	[ Adenoma TGLs = 11-1 ]		
* Prostate		Leukemia Mononuclear	
* Skin		Fibroma	
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
	[ Fibroma TGLs = 8-22 ]		
	[ Hyperplasia TGLs = 9-23,10-24 ]		
	[ Ulcer TGLs = 9-23,10-24 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 13-6 ]		
* Testes		Adenoma	
	Interstit Cell	Atrophy	Moderate
	Germinal Epith		
	[ Adenoma TGLs = 2-7 ]		
* Thyroid Gland		C Cell	Hyperplasia
			Minimal

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 46

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112011

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          |
| * Salivary Glands         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                            |                         |                     |
|--------------------------|----------------------------|-------------------------|---------------------|
| * Adrenal Cortex         |                            | Degeneration            | Fatty, Minimal      |
| * Adrenal Medulla        |                            | Hyperplasia             | Mild                |
|                          |                            | Pheochromocytoma Benign |                     |
| * Brain                  |                            | Compression             | Minimal             |
|                          | [ Compression TGLs = 4-1 ] |                         |                     |
| * Heart                  |                            | Cardiomyopathy          | Moderate            |
| * Kidney                 |                            | Inflammation            | Chronic, Mild       |
|                          |                            | Nephropathy             | Moderate            |
| * Liver                  |                            | Clear Cell Focus        |                     |
|                          | Bile Duct                  | Hyperplasia             | Minimal             |
| * Lung                   |                            | Infiltration Cellular   | Histiocyte, Minimal |
| * Lymph Node, Mesenteric |                            | Ectasia                 | Mild                |
| * Mammary Gland          |                            | Hyperplasia             | Moderate            |
|                          | [ Hyperplasia TGLs = 1-8 ] |                         |                     |
| * Nose                   |                            | Foreign Body            |                     |
|                          | Respirat Epith             | Hyperplasia             | Minimal             |
|                          |                            | Inflammation            | Chronic, Minimal    |
| * Pituitary Gland        |                            | Adenoma                 |                     |
|                          | Pars Distalis              |                         |                     |
|                          | [ Adenoma TGLs = 5-1 ]     |                         |                     |
| * Prostate               |                            | Inflammation            | Chronic, Mild       |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 46

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112011

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Fibrosis	Moderate
* Skin			
Note: SKIN, CONTROL - MISSING.			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 2-7 ]		
	[ Atrophy TGLs = 3-7 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 47

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112012

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	[ Leukemia Mononuclear TGLs = 5-6 ]	Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Mild
	[ Leukemia Mononuclear TGLs = 6-3 ]		
	[ Pigmentation TGLs = 6-3 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Oral Mucosa		Squamous Cell Carcinoma	
	[ Squamous Cell Carcinoma TGLs = 10-3-1 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Moderate
	[ Adenoma TGLs = 9-1 ]		
* Prostate		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 47

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112012

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin		Cyst Epithelial Inclusion	
		Fibrosarcoma	
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
	[ Cyst Epithelial Inclusion TGLs = 7-22 ]		
	[ Fibrosarcoma TGLs = 1-21 ]		
	[ Hyperplasia TGLs = 8-23 ]		
	[ Ulcer TGLs = 8-23 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLs = 2-7 ]		
* Thyroid Gland	Follicle	Cyst	
	Follicular Cel	Hyperplasia	Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 48

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112013

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Brain                  | * Epididymis               |
| * Esophagus               | * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Nose                   | * Pancreas                 |
| * Parathyroid Gland       | * Preputial Gland           | * Salivary Glands        | * Seminal Vesicle          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                     |                                   |                     |
|--------------------------|-------------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex         |                                     | Accessory Adrenal Cortical Nodule |                     |
| * Adrenal Medulla        |                                     | Hyperplasia                       | Minimal             |
| * Harderian Gland        |                                     | Inflammation                      | Chronic, Marked     |
| * Heart                  |                                     | Cardiomyopathy                    | Moderate            |
| * Kidney                 |                                     | Inflammation                      | Chronic, Mild       |
|                          |                                     | Nephropathy                       | Moderate            |
| * Liver                  | Bile Duct                           | Hyperplasia                       | Minimal             |
|                          |                                     | Infiltration Cellular             | Mixed Cell, Minimal |
|                          |                                     | Leukemia Mononuclear              |                     |
|                          | [ Leukemia Mononuclear TGLs = 8-6 ] |                                   |                     |
|                          | Lymph Node                          |                                   |                     |
|                          |                                     | Leukemia Mononuclear              |                     |
|                          |                                     | Leukemia Mononuclear              |                     |
|                          | [ Leukemia Mononuclear TGLs = 6-7 ] |                                   |                     |
|                          | [ Leukemia Mononuclear TGLs = 9-3 ] |                                   |                     |
| * Lymph Node, Mesenteric |                                     | Ectasia                           | Marked              |
| * Mammary Gland          |                                     | Hyperplasia                       | Moderate            |
|                          | [ Hyperplasia TGLs = 2-8 ]          |                                   |                     |
| Mesentery                |                                     | Accessory Spleen                  |                     |
|                          | [ Accessory Spleen TGLs = 5-22 ]    |                                   |                     |
| * Pituitary Gland        | Pars Distalis                       | Adenoma                           |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 48

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112013

ORGAN AND ACCOUNTABLE SITE STATUS

<p>* Prostate          [ Adenoma TGLs = 13-1 ]          [ Inflammation TGLs = 4-7-1 ]</p>	<p>Inflammation</p>	<p>Chronic, Moderate</p>
<p>* Skin          SOA          Epidermis</p>	<p>Hemorrhage          Hyperkeratosis          Hyperplasia          Inflammation          Keratoacanthoma          Ulcer</p>	<p>Mild          Minimal          Moderate          Acute, Mild          Marked</p>
<p>* Spleen          [ Hemorrhage TGLs = 11-23 ]          [ Hyperplasia TGLs = 12-24 ]          [ Inflammation TGLs = 11-23 ]          [ Keratoacanthoma TGLs = 1-21 ]          [ Ulcer TGLs = 12-24 ]</p>	<p>Hematopoietic Cell Proliferation          Leukemia Mononuclear</p>	<p>Mild</p>
<p>* Testes          [ Hematopoietic Cell Proliferation TGLs = 7-6 ]          [ Leukemia Mononuclear TGLs = 7-6 ]          Bilateral, Interstit Cell          Germinal Epith          [ Adenoma TGLs = 3-7 ]</p>	<p>Adenoma          Atrophy</p>	<p>Marked</p>

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 49

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112014

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mesenteric | * Parathyroid Gland        | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |   |                        |                  |
|-------------------|---|------------------------|------------------|
| * Heart           |   | Cardiomyopathy         | Minimal          |
| * Kidney          |   | Inflammation           | Chronic, Mild    |
|                   |   | Nephropathy            | Moderate         |
| * Liver           |   | Basophilic Focus       |                  |
|                   |   | Clear Cell Focus       |                  |
|                   | Bile Duct   | Hyperplasia            | Minimal          |
| * Mammary Gland   |   | Hyperplasia            | Mild             |
|                   | [ Hyperplasia TGLs = 2-8 ]                                  |                        |                  |
| Mesentery         |   | Mesothelioma Malignant |                  |
|                   | Fat   | Necrosis               | Moderate         |
|                   | Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, 22, AND 23. |                        |                  |
|                   | [ Mesothelioma Malignant TGLs = 3-22 ]                      |                        |                  |
|                   | [ Necrosis TGLs = 6-23 ]                                    |                        |                  |
| * Nose            |   | Foreign Body           |                  |
|                   |   | Inflammation           | Chronic, Minimal |
| * Pancreas        |   | Cyst                   |                  |
| * Pituitary Gland | Pars Distalis   | Adenoma                |                  |
|                   | [ Adenoma TGLs = 7-1 ]                                      |                        |                  |
| * Preputial Gland |   | Carcinoma              |                  |
|                   | [ Carcinoma TGLs = 1-21 ]                                   |                        |                  |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 49

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112014

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Mild
* Skin	Control Epider	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	
	[ Carcinoma TGLs = 5-3 ]		

---



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 50

**TMT:** 1  
**DOSE:** 0 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 480  
**HISTO:** 112015

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Mild
	[ Hyperplasia TGLs = 9-22 ]		
* Liver	Bile Duct	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 5-6 ]	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 5-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 6-2 ]	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-2 ]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		
	[ Leukemia Mononuclear TGLs = 3-23 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 50

TMT: 1

SEX: Male

DAY ON TEST: 480

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 112015

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLs = 2-24 ]			
* Stomach, Forestomach		Edema	Moderate
		Ulcer	Marked
[ Edema TGLs = 7-4,7-21 ]			
[ Ulcer TGLs = 8-21 ]			
* Stomach, Glandular		Cyst	
	Glands	Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
		Ulcer	Moderate
[ Cyst TGLs = 7-21 ]			
[ Hyperplasia TGLs = 7-21 ]			
[ Inflammation TGLs = 7-21 ]			
[ Ulcer TGLs = 8-21 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 51

TMT: 3

SEX: Male

DAY ON TEST: 272

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

Lymph Node

Note: LYMPH NODE, MEDIASTINAL - MISSING.

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Chronic, Minimal
Skeletal Muscle		Sarcoma	
[ Sarcoma TGLs = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH - Skeletal Muscle Sarcoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 52

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112017

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Pancreas                | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |               |                                   |                              |
|--|---------------|-----------------------------------|------------------------------|
| * Adrenal Cortex                         |               | Accessory Adrenal Cortical Nodule |                              |
| * Brain                                  |               | Carcinoma                         | Metastatic (Pituitary Gland) |
|  |               | Compression                       | Moderate                     |
| * Heart                                  |               | Cardiomyopathy                    | Mild                         |
| * Islets, Pancreatic                     |               | Adenoma                           |                              |
| * Kidney                                 |               | Nephropathy                       | Mild                         |
| * Liver                                  |               | Basophilic Focus                  |                              |
|  |               | Clear Cell Focus                  |                              |
|  |               | Infiltration Cellular             | Mixed Cell, Moderate         |
|  |               | Leukemia Mononuclear              |                              |
| * Lung                                   |               | Infiltration Cellular             | Histiocyte, Minimal          |
| Lymph Node                               |               |                                   |                              |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |               |                                   |                              |
| * Lymph Node, Mesenteric                 |               | Hyperplasia                       | Lymphoid, Mild               |
| * Mammary Gland                          |               | Hyperplasia                       | Marked                       |
| [ Hyperplasia TGLs = 1-8 ]               |               |                                   |                              |
| * Nose                                   |               | Inflammation                      | Chronic, Minimal             |
| * Pituitary Gland                        | Pars Distalis | Carcinoma                         |                              |
| [ Carcinoma TGLs = 3-1 ]                 |               |                                   |                              |
| * Prostate                               |               | Inflammation                      | Chronic, Moderate            |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 52

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112017

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[ Adenoma TGLs = 2-7 ]			

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 53

TMT: 3  
 DOSE: 10 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 657  
 HISTO: 112018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Epididymis             |
| * Esophagus               | * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Mammary Gland           | * Parathyroid Gland         | * Prostate               | * Salivary Glands        |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                 |
| * Trachea                 | * Urinary Bladder           |                          |                          |

MISSING

- |                          |                   |
|--------------------------|-------------------|
| * Lymph Node, Mandibular | * Pituitary Gland |
|--------------------------|-------------------|

OBSERVATIONS

- |  |  |                          |
|--|--|--------------------------|
| * Adrenal Cortex<br>[ Atrophy TGLs = 12-10 ]   | Atrophy  | Marked                   |
| * Bone Marrow  | Hyperplasia  | Mild                     |
| * Harderian Gland  | Inflammation   | Chronic, Moderate        |
| * Heart  | Cardiomyopathy   | Mild                     |
| * Intestine Small, Jejunum<br>[ Inflammation TGLs = 11-3 ]                           | Inflammation   | Chronic Active, Moderate |
| * Kidney   | Nephropathy  | Moderate                 |
| * Liver<br>[ Hyperplasia TGLs = 7-6 ]  | Oval Cell<br>Hyperplasia<br>Leukemia Mononuclear<br>Pigmentation | Moderate<br>Mild         |
| * Lung   | Inflammation<br>Leukemia Mononuclear                             | Chronic, Minimal         |
| Lymph Node<br>Note: LYMPH NODE, MEDIASTINAL - MISSING.<br>[ Hyperplasia TGLs = 5-7 ] | Pancreatic<br>Hyperplasia  | Histiocytic, Moderate    |
| * Lymph Node, Mesenteric<br>[ Leukemia Mononuclear TGLs = 6-5 ]                      | Hyperplasia<br>Leukemia Mononuclear                              | Histiocytic, Moderate    |
| * Nose   | Foreign Body   |                          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 53

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 657

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112018

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas	Olfactory Epi	Metaplasia	Respiratory, Minimal
		Atrophy	Minimal
		Cyst	
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin		Fibroma	
	Control	Hyperkeratosis	Minimal
	Control Epider	Hyperplasia	Minimal
	[ Fibroma TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
	[ Hematopoietic Cell Proliferation TGLs = 4-6 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	[ Adenoma TGLs = 3-7 ]		
	[ Atrophy TGLs = 2-7 ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 54

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

INSUFFICIENT TISSUE

\* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Minimal
* Epididymis		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
	[ Clear Cell Focus TGLs = 3-21 ]		
	[ Mixed Cell Focus TGLs = 2-6 ]		
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
	[ Hemorrhage TGLs = 4-3 ]		

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 54

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112019

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Hyperplasia TGLs = 4-3 ]		
	[ Pigmentation TGLs = 4-3 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland		Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Preputial Gland		Cyst	
* Prostate		Adenoma	
		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes		Atrophy	Minimal
* Thyroid Gland		Germinal Epith	
	Follicle	Cyst	
	C Cell	Hyperplasia	Minimal
Tongue	Epithelium	Hyperplasia	Mild
	[ Hyperplasia TGLs = 6-22 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 55

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 670

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112020

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Mammary Gland           |
| * Parathyroid Gland         | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |  |                                   |          |
|----------------------|--|-----------------------------------|----------|
| * Adrenal Cortex     |  | Accessory Adrenal Cortical Nodule |          |
|                      |  | Leukemia Mononuclear              |          |
| * Adrenal Medulla    |  | Leukemia Mononuclear              |          |
| * Bone Marrow        |  | Leukemia Mononuclear              |          |
|                      |  | Myelofibrosis                     | Moderate |
| * Brain              |  | Hemorrhage                        | Minimal  |
| * Heart              |  | Cardiomyopathy                    | Mild     |
|                      |  | Thrombosis                        | Marked   |
|                      | [ Thrombosis TGLs = 8-12 ]                 |                                   |          |
| * Islets, Pancreatic |  | Adenoma                           |          |
|                      | [ Adenoma TGLs = 2-7 ]                     |                                   |          |
| * Kidney             |  | Leukemia Mononuclear              |          |
|                      |  | Nephropathy                       | Mild     |
| * Liver              |  | Eosinophilic Focus                |          |
|                      |  | Hepatodiaphragmatic Nodule        |          |
|                      | Bile Duct                                  | Hyperplasia                       | Marked   |
|                      |  | Leukemia Mononuclear              |          |
|                      | [ Hepatodiaphragmatic Nodule TGLs = 6-22 ] |                                   |          |
|                      | [ Hyperplasia TGLs = 5-6 ]                 |                                   |          |
|                      | [ Leukemia Mononuclear TGLs = 5-6 ]        |                                   |          |
| * Lung               |  | Leukemia Mononuclear              |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 55

TMT: 3

SEX: Male

DAY ON TEST: 670

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112020

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear	TGLs = 7-23 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear	TGLs = 3-5,4-21 ]		
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas	Respirat Epith	Metaplasia	Squamous, Mild
* Pituitary Gland		Atrophy	Moderate
	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
	Pars Distalis	Cytoplasmic Alteration	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear	TGLs = 1-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 56

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112021

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Bone Marrow            | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric  |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                                     |   |                   |
|----------------------|-------------------------------------|---|-------------------|
| * Adrenal Cortex     |                                     | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Mild       |
|                      |                                     | Hypertrophy                                       | Focal, Mild       |
| * Adrenal Medulla    |                                     | Hyperplasia                                       | Minimal           |
|                      |                                     | Pheochromocytoma Benign                           |                   |
| * Brain              |                                     | Compression                                       | Mild              |
|                      | [ Compression TGLs = 5-1 ]          |   |                   |
| * Epididymis         |                                     | Inflammation                                      | Chronic, Mild     |
| * Heart              |                                     | Cardiomyopathy                                    | Moderate          |
| * Islets, Pancreatic |                                     | Hyperplasia                                       | Minimal           |
| * Kidney             |                                     | Inflammation                                      | Chronic, Moderate |
|                      |                                     | Nephropathy                                       | Moderate          |
| * Liver              |                                     | Leukemia Mononuclear                              |                   |
| * Lung               |                                     | Inflammation                                      | Chronic, Mild     |
| Lymph Node           | Mediastinal                         | Ectasia   | Moderate          |
|                      | Mediastinal                         | Leukemia Mononuclear                              |                   |
|                      | [ Ectasia TGLs = 2-3 ]              |   |                   |
|                      | [ Leukemia Mononuclear TGLs = 2-3 ] |   |                   |
| * Mammary Gland      |                                     | Hyperplasia                                       | Moderate          |
| Mesentery            |                                     | Mesothelioma Malignant                            |                   |

Note: MESOTHELIOMA IS PRESENT ON SLIDE 7-1.

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 56

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112021

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 4-1 ]		
* Salivary Glands		Atrophy	Minimal
* Skin	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
	Control Epider	Hyperplasia	Minimal
		Ulcer	Marked
	[ Hyperplasia TGLs = 3-21 ]		
	[ Ulcer TGLs = 3-21 ]		
* Spleen		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 6-7 ]		
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 57

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112022

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
Lymph Node	Mediastinal	Ectasia	Moderate
[ Ectasia TGLs = 2-3 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 57

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112022

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLs = 4-1 ]	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLs = 1-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 58

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112023

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Mammary Gland          |
| * Parathyroid Gland        | * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |   |                            |                                   |                      |
|---|----------------------------|-----------------------------------|----------------------|
| * Adrenal Cortex                        |                            | Accessory Adrenal Cortical Nodule |                      |
| * Adrenal Medulla                       |                            | Hyperplasia                       | Mild                 |
| * Heart                                 |                            | Cardiomyopathy                    | Mild                 |
| * Kidney                                |                            | Nephropathy                       | Mild                 |
| * Liver                                 |                            | Basophilic Focus                  |                      |
|   |                            | Clear Cell Focus                  |                      |
|   | Bile Duct                  | Hyperplasia                       | Minimal              |
| Lymph Node                              | Mediastinal                | Ectasia                           | Mild                 |
|   | Mediastinal                | Hyperplasia                       | Lymphoid, Moderate   |
|   | [ Ectasia TGLs = 4-3 ]     |                                   |                      |
|   | [ Hyperplasia TGLs = 4-3 ] |                                   |                      |
| * Lymph Node, Mesenteric                |                            | Hyperplasia                       | Lymphoid, Mild       |
| * Nose                                  |                            | Foreign Body                      |                      |
|   |                            | Inflammation                      | Chronic, Minimal     |
|   | Olfactory Epi              | Metaplasia                        | Respiratory, Minimal |
| * Pancreas                              |                            | Atrophy                           | Mild                 |
|   |                            | Cyst                              |                      |
|   | Acinus                     | Hyperplasia                       | Focal, Moderate      |
| Note: ACINAR HYPERPLASIA IS ON SLIDE 4. |                            |                                   |                      |
| * Pituitary Gland                       | Pars Distalis              | Adenoma                           |                      |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 58

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112023

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	
		Inflammation	Chronic, Mild
	[ Cyst TGLs = 1-8 ]		
	[ Inflammation TGLs = 1-8 ]		
* Prostate		Inflammation	Chronic, Minimal
	[ Inflammation TGLs = 3-7-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 2-7 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 59

**TMT:** 3  
**DOSE:** 10 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 480  
**HISTO:** 112024

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                          |                           |                             |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla        | * Bone                    | * Bone Marrow               |
| * Epididymis             | * Esophagus              | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Pancreas               | * Parathyroid Gland      | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach   | * Testes                  | * Thymus                    |
| * Trachea                | * Urinary Bladder        |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Jejunum
- \* Thyroid Gland

**OBSERVATIONS**

- |                      |                               |                |               |
|----------------------|-------------------------------|----------------|---------------|
| * Brain              |                               | Compression    | Marked        |
|                      | [ Compression TGLs = 3-1 ]    |                |               |
| * Heart              |                               | Cardiomyopathy | Mild          |
| * Kidney             |                               | Nephropathy    | Mild          |
| * Liver              | Bile Duct                     | Hyperplasia    | Minimal       |
| * Lung               |                               | Inflammation   | Chronic, Mild |
| Lymph Node           | Mediastinal                   | Hemorrhage     | Minimal       |
|                      | [ Hemorrhage TGLs = 2-3 ]     |                |               |
| * Nose               |                               | Foreign Body   |               |
| * Pituitary Gland    | Pars Distalis                 | Adenoma        |               |
|                      | [ Adenoma TGLs = 4-1 ]        |                |               |
| * Preputial Gland    |                               | Inflammation   | Chronic, Mild |
| * Prostate           |                               | Inflammation   | Chronic, Mild |
|                      | [ Inflammation TGLs = 1-7-1 ] |                |               |
| * Spleen             |                               | Pigmentation   | Moderate      |
| * Stomach, Glandular |                               | Ulcer          | Mild          |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 60

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	Multiple
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Mild
* Eye		Inflammation	Acute, Moderate
* Heart		Cardiomyopathy	Moderate
	[ Thrombosis TGLs = 13-12 ]	Thrombosis	Moderate
* Kidney		Cyst	
	[ Cyst TGLs = 11-22,12-5 ]	Nephropathy	Marked
	[ Nephropathy TGLs = 7-5 ]		
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLs = 6-6 ]		
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
	[ Hemorrhage TGLs = 10-3 ]		
	[ Pigmentation TGLs = 10-3 ]		
* Lymph Node, Mesenteric		Atrophy	Moderate
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 60

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112025

**ORGAN AND ACCOUNTABLE SITE STATUS**

Mesentery		Hemorrhage	Marked
		Mineralization	Moderate
	[ Hemorrhage TGLs = 8-21 ]		
	[ Mineralization TGLs = 8-21 ]		
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
* Pancreas	Olfactory Epi	Metaplasia	Respiratory, Minimal
		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Acinus	Cytoplasmic Alteration	Moderate
	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 14-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Mild
	[ Atrophy TGLs = 5-6 ]		
* Stomach, Glandular	Glands	Hyperplasia	Moderate
		Mineralization	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
	[ Adenoma TGLs = 2-7 ]		
	[ Atrophy TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Kidney Nephropathy  
 CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis  
 - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 61

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112026

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
		[ Necrosis TGLs = 3-21 ]	
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Intermed	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Cyst	
		[ Cyst TGLs = 1-8 ]	
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 61

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112026

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLs = 2-7 ]

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 62

TMT: 3  
 DOSE: 10 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 613  
 HISTO: 112027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Jejunum	* Lymph Node, Mandibular
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Nose	* Thyroid Gland
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Centrilobular	Leukemia Mononuclear	
	[ Hepatodiaphragmatic Nodule TGLs = 5-22 ]	Necrosis	Marked
	[ Leukemia Mononuclear TGLs = 6-6 ]		
	[ Necrosis TGLs = 6-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		
	[ Leukemia Mononuclear TGLs = 3-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-5 ]		
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Accessory Spleen	
	[ Accessory Spleen TGLs = 2-21 ]		
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 62

TMT: 3

SEX: Male

DAY ON TEST: 613

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112027

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 9-1 ]

\* Prostate

Inflammation

Chronic, Mild

\* Salivary Glands

Necrosis

Mild

\* Spleen

Leukemia Mononuclear

\* Stomach, Glandular

Erosion

Moderate

[ Erosion TGLs = 10-4 ]

\* Testes

Interstit Cell

Adenoma

\* Thymus

Leukemia Mononuclear

[ Leukemia Mononuclear TGLs = 7-3 ]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 63

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 660

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112028

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Medulla         | * Bone                      | * Epididymis             | * Esophagus              |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Mammary Gland           | * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands        |
| * Seminal Vesicle         | * Skin                      | * Stomach, Glandular     | * Thymus                 |
| * Trachea                 | * Urinary Bladder           |                          |                          |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Jejunum
- \* Thyroid Gland

**OBSERVATIONS**

- |                          |   |                                   |          |
|--------------------------|---|-----------------------------------|----------|
| * Adrenal Cortex         |   | Accessory Adrenal Cortical Nodule |          |
|                          |   | Leukemia Mononuclear              |          |
|                          | [ Accessory Adrenal Cortical Nodule TGLs = 6-23 ] |                                   |          |
| * Bone Marrow            |   | Leukemia Mononuclear              |          |
| * Brain                  |   | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 11-1,13-1 ]         |                                   |          |
| * Heart                  |   | Leukemia Mononuclear              |          |
| * Kidney                 |   | Leukemia Mononuclear              |          |
|                          |   | Nephropathy                       | Minimal  |
| * Liver                  | Bile Duct   | Hyperplasia                       | Minimal  |
|                          |   | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 8-6 ]               |                                   |          |
| * Lung                   |   | Leukemia Mononuclear              |          |
| Lymph Node               | Mediastinal                                       | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 9-24 ]              |                                   |          |
| * Lymph Node, Mesenteric |   | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 7-5 ]               |                                   |          |
| Mesentery                | Fat   | Necrosis                          | Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 63

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 660

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112028

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Necrosis TGLs = 2-21 ]		
* Nose		Fungus	
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Mild
		Cyst	
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 5-6-1 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 64

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112029

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mesenteric | * Nose                     | * Parathyroid Gland       |
| * Preputial Gland           | * Salivary Glands        | * Seminal Vesicle          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                              |   |   |  |
|------------------------------|---|---|--|
| * Brain                      |   | Carcinoma<br>Compression                  | Metastatic (Pituitary Gland)<br>Marked     |
| [ Compression TGLs = 3-1 ]   |   |   |  |
| * Kidney                     |   | Nephropathy                               | Mild                                       |
| * Liver                      |   | Hepatodiaphragmatic Nodule<br>Hyperplasia | Minimal                                    |
| [ Hepatodiaphragmatic Nodule | Bile Duct<br>TGLs = 1-21 ]                |   |  |
| Lymph Node                   | Mediastinal<br>Mediastinal<br>Mediastinal | Ectasia<br>Hemorrhage<br>Hyperplasia      | Moderate<br>Moderate<br>Lymphoid, Moderate |
| [ Ectasia TGLs = 2-3 ]       |   |   |  |
| [ Hemorrhage TGLs = 2-3 ]    |   |   |  |
| [ Hyperplasia TGLs = 2-3 ]   |   |   |  |
| * Mammary Gland              |   | Hyperplasia                               | Mild                                       |
| * Pancreas                   |   | Cyst                                      |  |
| * Pituitary Gland            | Pars Distalis                             | Carcinoma                                 |  |
| [ Carcinoma TGLs = 4-1 ]     |   |   |  |
| * Prostate                   |   | Inflammation                              | Chronic, Moderate                          |
| * Skin                       | SOA                                       | Hyperkeratosis                            | Minimal                                    |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 64

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112029

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Pigmentation

Moderate

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 65

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112030

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Mammary Gland             | * Pancreas               |
| * Parathyroid Gland        | * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                      |                                   |                     |
|--------------------------|--------------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex         |                                      | Accessory Adrenal Cortical Nodule |                     |
|                          |                                      | Degeneration                      | Fatty, Moderate     |
|                          |                                      | Hypertrophy                       | Focal, Mild         |
| * Adrenal Medulla        |                                      | Hyperplasia                       | Minimal             |
| * Heart                  |                                      | Cardiomyopathy                    | Moderate            |
| * Kidney                 |                                      | Inflammation                      | Chronic, Mild       |
|                          |                                      | Nephropathy                       | Moderate            |
| * Liver                  |                                      | Basophilic Focus                  |                     |
|                          |                                      | Clear Cell Focus                  |                     |
|                          | Bile Duct                            | Hyperplasia                       | Minimal             |
|                          |                                      | Mixed Cell Focus                  |                     |
|                          | Hepatocyte                           | Vacuolization Cytoplasmic         | Mild                |
| * Lung                   |                                      | Infiltration Cellular             | Histiocyte, Minimal |
|                          | [ Infiltration Cellular TGLs = 4-2 ] |                                   |                     |
|                          | Lymph Node                           | Mediastinal                       | Minimal             |
|                          |                                      | Mediastinal                       | Lymphoid, Minimal   |
|                          | [ Hemorrhage TGLs = 3-3 ]            |                                   |                     |
|                          | [ Hyperplasia TGLs = 3-3 ]           |                                   |                     |
| * Lymph Node, Mesenteric |                                      | Hyperplasia                       | Lymphoid, Mild      |
| * Nose                   |                                      | Foreign Body                      |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 65

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112030

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Intermed Pars Distalis	Inflammation Cyst	Chronic, Minimal
* Prostate		Hyperplasia Inflammation	Focal, Mild Chronic, Minimal
[ Inflammation TGLs = 2-7-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal
[ Adenoma TGLs = 1-7 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 66

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112031

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Mild
* Brain		Compression	Moderate
[ Compression TGLs = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Mild
[ Hemorrhage TGLs = 3-3 ]			
[ Pigmentation TGLs = 3-3 ]			
* Lymph Node, Mesenteric		Ectasia	Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 66

TMT: 3

SEX: Male

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112031

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 5-1 ]	Olfactory Epi Pars Distalis	Metaplasia Adenoma	Respiratory, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes [ Adenoma TGLs = 2-7 ]	Interstit Cell Germinal Epith	Adenoma Atrophy	Mild



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 67

**TMT:** 3  
**DOSE:** 10 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 112032

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Nose                    |
| * Parathyroid Gland         | * Salivary Glands        | * Seminal Vesicle          | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |               |                       |                     |
|--|---------------|-----------------------|---------------------|
| * Adrenal Cortex                         |               | Hypertrophy           | Focal, Mild         |
| * Islets, Pancreatic                     |               | Adenoma               |                     |
| * Kidney                                 |               | Nephropathy           | Minimal             |
| * Liver                                  |               | Basophilic Focus      |                     |
|  |               | Eosinophilic Focus    |                     |
|  |               | Mixed Cell Focus      |                     |
| * Lung                                   |               | Infiltration Cellular | Histiocyte, Minimal |
|  |               | Inflammation          | Chronic, Minimal    |
|  |               | Metaplasia            | Osseous, Minimal    |
| Lymph Node                               |               |                       |                     |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |               |                       |                     |
| * Lymph Node, Mesenteric                 |               | Hemorrhage            | Mild                |
| * Mammary Gland                          |               | Hyperplasia           | Moderate            |
| [ Hyperplasia TGLs = 1-8 ]               |               |                       |                     |
| * Pancreas                               |               | Atrophy               | Minimal             |
| * Pituitary Gland                        | Pars Distalis | Hyperplasia           | Focal, Moderate     |
| * Preputial Gland                        |               | Inflammation          | Chronic, Mild       |
| * Prostate                               | Epithelium    | Hyperplasia           | Minimal             |
|  |               | Inflammation          | Chronic, Moderate   |
| * Skin                                   |               | Fibroma               |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 67

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112032

ORGAN AND ACCOUNTABLE SITE STATUS

	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
	Control Epider	Hyperplasia	Minimal
		Ulcer	Marked
	[ Fibroma TGLs = 2-21 ]		
	[ Hyperplasia TGLs = 4-22 ]		
	[ Ulcer TGLs = 4-22 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 3-7 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 68

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 718

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112033

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Nose                     | * Parathyroid Gland       | * Salivary Glands           | * Seminal Vesicle        |
| * Spleen                   | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                  |                                  |                                   |                    |
|------------------|----------------------------------|-----------------------------------|--------------------|
| * Adrenal Cortex |                                  | Accessory Adrenal Cortical Nodule |                    |
|                  |                                  | Degeneration                      | Fatty, Mild        |
| * Brain          |                                  | Compression                       | Marked             |
|                  | [ Compression TGLs = 7-1 ]       |                                   |                    |
| * Heart          |                                  | Cardiomyopathy                    | Moderate           |
| * Kidney         |                                  | Nephropathy                       | Moderate           |
| * Liver          |                                  | Mixed Cell Focus                  |                    |
|                  | Hepatocyte                       | Vacuolization Cytoplasmic         | Mild               |
|                  | [ Mixed Cell Focus TGLs = 4-22 ] |                                   |                    |
| Lymph Node       | Mediastinal                      | Ectasia                           | Moderate           |
|                  | Pancreatic                       | Hemorrhage                        | Mild               |
|                  | Mediastinal                      | Hyperplasia                       | Lymphoid, Moderate |
|                  | Pancreatic                       | Pigmentation                      | Moderate           |
|                  | [ Ectasia TGLs = 5-3 ]           |                                   |                    |
|                  | [ Hemorrhage TGLs = 9-7 ]        |                                   |                    |
|                  | [ Hyperplasia TGLs = 5-3 ]       |                                   |                    |
|                  | [ Pigmentation TGLs = 9-7 ]      |                                   |                    |
| * Mammary Gland  |                                  | Hyperplasia                       | Marked             |
|                  | [ Hyperplasia TGLs = 1-8,2-21 ]  |                                   |                    |
| Mesentery        |                                  | Mesothelioma Malignant            |                    |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 68

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 718

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112033

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: MESOTHELIOMA IS PRESENT ON SLIDES 2, 7, 7-1, AND 24.

[ Mesothelioma Malignant TGLs = 3-24 ]

* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Mild
		Ulcer	Marked
	[ Hyperplasia TGLs = 6-23 ]		
	[ Ulcer TGLs = 6-23 ]		
* Stomach, Forestomach	Epithelium	Edema	Moderate
		Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
		Ulcer	Marked

Note: ULCERATION IS VISIBLE ON SLIDES 4 AND 25.

[ Ulcer TGLs = 10-25 ]

* Testes	Germinal Epith	Atrophy	Marked
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PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
 - Stomach, Forestomach Ulcer

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 69

**TMT:** 3  
**DOSE:** 10 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 659  
**HISTO:** 112034

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Thrombosis	Marked
	[ Thrombosis TGLs = 6-22,7-12 ]		
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[ Hyperplasia TGLs = 5-6 ]		
	[ Leukemia Mononuclear TGLs = 5-6 ]		
	[ Necrosis TGLs = 5-6 ]		
* Lung		Leukemia Mononuclear	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas		Atrophy	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Sebaceous Gl	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 69

TMT: 3

SEX: Male

DAY ON TEST: 659

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112034

ORGAN AND ACCOUNTABLE SITE STATUS

[ Carcinoma TGLs = 8-21 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 3-23 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLs = 1-7 ]			
Tongue	Epithelium	Hyperplasia	Mild
[ Hyperplasia TGLs = 9-24 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 70

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112035

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Nose                   | * Parathyroid Gland        | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |                |                       |                     |
|--|----------------|-----------------------|---------------------|
| * Heart                                  |                | Cardiomyopathy        | Minimal             |
| * Kidney                                 |                | Nephropathy           | Minimal             |
| * Liver                                  |                | Clear Cell Focus      |                     |
|  | Bile Duct      | Hyperplasia           | Mild                |
|  |                | Leukemia Mononuclear  |                     |
| * Lung                                   |                | Infiltration Cellular | Histiocyte, Minimal |
|  |                | Inflammation          | Chronic, Minimal    |
| Lymph Node                               |                |                       |                     |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                |                       |                     |
| * Mammary Gland                          |                | Hyperplasia           | Mild                |
| [ Hyperplasia TGLs = 1-8 ]               |                |                       |                     |
| * Pancreas                               |                | Atrophy               | Minimal             |
| * Pituitary Gland                        | Pars Intermed  | Adenoma               |                     |
| [ Adenoma TGLs = 3-1 ]                   |                |                       |                     |
| * Preputial Gland                        |                | Inflammation          | Chronic, Mild       |
| * Prostate                               | Epithelium     | Hyperplasia           | Minimal             |
|  |                | Inflammation          | Chronic, Mild       |
| * Spleen                                 |                | Leukemia Mononuclear  |                     |
| * Testes                                 | Interstit Cell | Adenoma               |                     |
|  | Germinal Epith | Atrophy               | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 70

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112035

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 2-7 ]	Interstit Cell	Hyperplasia	Minimal
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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 71

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112036

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Mild
	[ Compression TGLs = 6-1 ]		
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Mild
	[ Nephropathy TGLs = 4-5 ]		
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLs = 1-8,2-21 ]		
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland		Adenoma	
	Pars Distalis		
	[ Adenoma TGLs = 5-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 71

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112036

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Inflammation TGLs = 3-7-1 ]

* Skin	Control Epider	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Marked

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 72

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112037

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mesenteric    |
| * Parathyroid Gland      | * Salivary Glands          | * Seminal Vesicle         | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |                          |  |                           |
|--|--------------------------|--|---------------------------|
| * Adrenal Medulla                        |                          | Hyperplasia<br>Pheochromocytoma Malignant                | Mild                      |
| * Heart                                  |                          | Cardiomyopathy   | Mild                      |
| * Islets, Pancreatic                     |                          | Adenoma  |                           |
| [ Adenoma TGLs = 3-23 ]                  |                          |  |                           |
| * Kidney                                 |                          | Inflammation<br>Nephropathy                              | Chronic, Mild<br>Moderate |
| * Liver                                  |                          | Basophilic Focus<br>Clear Cell Focus<br>Mixed Cell Focus |                           |
| Lymph Node                               | Pancreatic<br>Pancreatic | Ectasia<br>Hyperplasia                                   | Marked<br>Lymphoid, Mild  |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                          |  |                           |
| [ Ectasia TGLs = 5-25 ]                  |                          |  |                           |
| [ Hyperplasia TGLs = 4-24 ]              |                          |  |                           |
| * Mammary Gland                          |                          | Hyperplasia  | Mild                      |
| Mesentery                                | Fat                      | Necrosis   | Moderate                  |
| [ Necrosis TGLs = 2-22 ]                 |                          |  |                           |
| * Nose                                   |                          | Foreign Body<br>Fungus                                   |                           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 72

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112037

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia Inflammation	Moderate Chronic, Moderate
	Respirat Epith	Metaplasia Atrophy	Squamous, Moderate Moderate
* Pancreas			
* Pituitary Gland	Pars Distalis	Atrophy Pigmentation	Moderate Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin		Fibroma	
	SOA	Hyperkeratosis	Minimal
[ Fibroma TGLs = 1-21 ]			
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Mild Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 73

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 554

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112038

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Salivary Glands        | * Seminal Vesicle          | * Stomach, Forestomach    |
| * Thymus                    | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                                  |                                  |                  |
|----------------------|----------------------------------|----------------------------------|------------------|
| * Bone Marrow        |                                  | Hyperplasia                      | Marked           |
| * Kidney             |                                  | Nephropathy                      | Minimal          |
| * Liver              |                                  | Basophilic Focus                 |                  |
| * Lung               |                                  | Inflammation                     | Chronic, Mild    |
| Lymph Node           | Mediastinal                      | Hemorrhage                       | Minimal          |
|                      | Mediastinal                      | Hyperplasia                      | Lymphoid, Marked |
|                      | [ Hemorrhage TGLs = 1-3 ]        |                                  |                  |
|                      | [ Hyperplasia TGLs = 1-3 ]       |                                  |                  |
| * Pituitary Gland    | Pars Distalis                    | Hyperplasia                      | Focal, Mild      |
| * Preputial Gland    |                                  | Inflammation                     | Chronic, Mild    |
| * Prostate           |                                  | Inflammation                     | Chronic, Minimal |
| * Skin               | Epidermis                        | Hyperplasia                      | Moderate         |
|                      | [ Hyperplasia TGLs = 3-22 ]      |                                  |                  |
| * Spleen             |                                  | Hematopoietic Cell Proliferation | Mild             |
| * Stomach, Glandular | Glands                           | Hyperplasia                      | Mild             |
| * Testes             | Interstit Cell                   | Hyperplasia                      | Minimal          |
| * Thyroid Gland      | Follicle                         | Cyst                             |                  |
| Zymbal's Gland       |                                  | Carcinoma                        |                  |
|                      | [ Carcinoma TGLs = 2-21,2-21-1 ] |                                  |                  |

**PRIMARY CAUSE OF DEATH** - Zymbal's Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 74

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112039

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[ Hepatodiaphragmatic Nodule TGLs = 3-21 ]	Leukemia Mononuclear	
* Lung		Hemorrhage	Minimal
		Inflammation	Chronic, Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 74

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112039

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
	[ Hyperplasia TGLs = 4-22 ]		
	[ Ulcer TGLs = 4-22 ]		
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 2-7 ]		
* Thyroid Gland	C Cell	Adenoma	

Animal Note: MONONUCLEAR LEUKEMIA APPEARS TO BE IN AN EARLY STAGE.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 75

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112040

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Bone Marrow            | * Epididymis               | * Esophagus               |
| * Eye                       | * Harderian Gland        | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Nose                      | * Parathyroid Gland      | * Preputial Gland          | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Trachea                   |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |   |  |  |   |
|---|--|--|---|
| * Adrenal Cortex                            |  | Accessory Adrenal Cortical Nodule<br>Degeneration                        | Fatty, Minimal                                  |
| * Adrenal Medulla                           |  | Hyperplasia<br>Pheochromocytoma Benign                                   | Moderate  |
| * Brain                                     |  | Compression  | Minimal   |
| [ Compression TGLs = 15-1 ]                 |  |  |   |
| Coagulating Gland                           |  | Inflammation   | Chronic, Moderate                               |
| [ Inflammation TGLs = 7-7 ]                 |  |  |   |
| * Heart                                     |  | Cardiomyopathy   | Moderate  |
| * Intestine Large, Cecum                    |  | Infiltration Cellular  | Mixed Cell, Moderate                            |
| * Kidney                                    |  | Inflammation<br>Nephropathy  | Chronic, Moderate<br>Marked                     |
| [ Inflammation TGLs = 8-5 ]                 |  |  |   |
| [ Nephropathy TGLs = 8-5 ]                  |  |  |   |
| * Liver                                     |  | Basophilic Focus<br>Hepatocellular Adenoma<br>Hepatodiaphragmatic Nodule |   |
| [ Hepatodiaphragmatic Nodule TGLs = 11-23 ] |  |  |   |
| * Lung                                      |  | Edema<br>Infiltration Cellular<br>Inflammation                           | Minimal<br>Histiocyte, Minimal<br>Chronic, Mild |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 75

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112040

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hemorrhage TGLs = 12-3 ]			
[ Hyperplasia TGLs = 12-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
[ Hemorrhage TGLs = 13-5 ]			
[ Hyperplasia TGLs = 13-5 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-21 ]			
* Pancreas		Atrophy	Minimal
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 14-1 ]			
* Prostate		Inflammation	Chronic, Marked
[ Inflammation TGLs = 6-7-1 ]			
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLs = 3-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
[ Adenoma TGLs = 4-7 ]			
[ Atrophy TGLs = 5-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hemorrhage	Mild
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 76

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112041

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Pancreas                | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- |                          |                 |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

**OBSERVATIONS**

- |                          |   |                                   |                      |
|--------------------------|---|-----------------------------------|----------------------|
| * Adrenal Cortex         |   | Accessory Adrenal Cortical Nodule |                      |
|                          |   | Degeneration                      | Fatty, Minimal       |
| * Adrenal Medulla        |   | Hyperplasia                       | Moderate             |
|                          |   | Pheochromocytoma Benign           |                      |
| * Heart                  |   | Cardiomyopathy                    | Moderate             |
|                          |   | Thrombosis                        | Moderate             |
|                          | [ Thrombosis TGLs = 4-12 ]                                      |                                   |                      |
| * Islets, Pancreatic     |   | Adenoma                           |                      |
| * Kidney                 |   | Inflammation                      | Chronic, Moderate    |
|                          |   | Nephropathy                       | Moderate             |
| * Liver                  |   | Clear Cell Focus                  |                      |
|                          | Bile Duct   | Hyperplasia                       | Minimal              |
|                          |   | Leukemia Mononuclear              |                      |
| * Lung                   |   | Edema                             | Moderate             |
|                          |   | Infiltration Cellular             | Histiocyte, Moderate |
|                          | Note: HISTIOCYTE (ALVEOLAR MACROPHAGE) INFILTRATION IS DIFFUSE. |                                   |                      |
| Lymph Node               | Mediastinal   | Leukemia Mononuclear              |                      |
|                          | [ Leukemia Mononuclear TGLs = 3-3 ]                             |                                   |                      |
| * Lymph Node, Mesenteric |   | Leukemia Mononuclear              |                      |
|                          |   | Pigmentation                      | Moderate             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 76

TMT: 3

SEX: Male

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112041

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
Note: THE PITUITARY GLAND TUMOR IS MODERATELY ANAPLASTIC BUT SHOWS NO EVIDENCE OF INVASION OR METASTASIS TO OTHER SITES. [ Adenoma TGLs = 5-1 ]			
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 77

**TMT:** 3  
**DOSE:** 10 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112042

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                   | * Bone Marrow               | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lung                   | * Pancreas                  | * Parathyroid Gland      |
| * Preputial Gland          | * Prostate               | * Salivary Glands           | * Seminal Vesicle        |
| * Stomach, Forestomach     | * Stomach, Glandular     | * Thymus                    | * Trachea                |
| * Urinary Bladder          |                          |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |                              |               |                            |             |
|------------------------------|---------------|----------------------------|-------------|
| * Adrenal Cortex             |               | Degeneration               | Fatty, Mild |
| * Heart                      |               | Cardiomyopathy             | Minimal     |
| * Islets, Pancreatic         |               | Adenoma                    |             |
| * Kidney                     |               | Nephropathy                | Mild        |
| * Liver                      |               | Basophilic Focus           |             |
|                              |               | Clear Cell Focus           |             |
|                              |               | Hepatodiaphragmatic Nodule |             |
|                              | Bile Duct     | Hyperplasia                | Minimal     |
|                              |               | Leukemia Mononuclear       |             |
| [ Hepatodiaphragmatic Nodule | TGLs = 3-21 ] |                            |             |
| Lymph Node                   | Mediastinal   | Leukemia Mononuclear       |             |
| * Lymph Node, Mesenteric     |               | Leukemia Mononuclear       |             |
| * Mammary Gland              |               | Hyperplasia                | Moderate    |
| [ Hyperplasia                | TGLs = 1-8 ]  |                            |             |
| * Nose                       |               | Foreign Body               |             |
| * Pituitary Gland            | Pars Distalis | Hyperplasia                | Focal, Mild |
| * Skin                       | SOA           | Hyperkeratosis             | Minimal     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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**ANIMAL NUM:** 77

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112042

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Mild
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 78

TMT: 3

SEX: Male

DAY ON TEST: 675

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112043

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Medulla	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	Urethra	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
		Hemorrhage	Moderate
	[ Compression TGLs = 12-1 ]		
	[ Hemorrhage TGLs = 12-1 ]		
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Hyperplasia TGLs = 9-6 ]		
	[ Leukemia Mononuclear TGLs = 9-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 10-22 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 78

TMT: 3

SEX: Male

DAY ON TEST: 675

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112043

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLs = 4-5,8-21 ]		
* Mammary Gland	Hyperplasia	Mild
[ Hyperplasia TGLs = 1-8 ]		
* Nose	Foreign Body	
* Pituitary Gland	Adenoma	
[ Adenoma TGLs = 11-1 ]		
* Prostate	Inflammation	Chronic, Mild
[ Inflammation TGLs = 6-7-1 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild
	Leukemia Mononuclear	
[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
[ Leukemia Mononuclear TGLs = 2-6 ]		
* Stomach, Glandular	Erosion	Minimal
[ Erosion TGLs = 14-4,14-25 ]		
* Testes	Adenoma	
[ Adenoma TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 79

**TMT:** 3  
**DOSE:** 10 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112044

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Bone                   | * Bone Marrow              | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| Lymph Node                  | * Nose                   | * Parathyroid Gland        | * Preputial Gland         |
| * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |   |               |                      |                   |
|---|---------------|----------------------|-------------------|
| * Adrenal Medulla   |               | Hyperplasia          | Minimal           |
| * Brain   |               | Compression          | Mild              |
| [ Compression TGLs = 3-1 ]                                  |               |                      |                   |
| * Epididymis  |               | Inflammation         | Chronic, Mild     |
| * Harderian Gland   |               | Inflammation         | Chronic, Moderate |
| * Heart   |               | Cardiomyopathy       | Moderate          |
| * Islets, Pancreatic  |               | Adenoma              |                   |
| Note: ISLET CELL ADENOMA IS PRESENT ON SLIDE 4.             |               |                      |                   |
| * Kidney  |               | Inflammation         | Chronic, Mild     |
|   |               | Nephropathy          | Mild              |
| * Liver   |               | Basophilic Focus     |                   |
|   | Bile Duct     | Hyperplasia          | Minimal           |
|   |               | Leukemia Mononuclear |                   |
| Note: MONONUCLEAR LEUKEMIA APPEARS TO BE IN AN EARLY STAGE. |               |                      |                   |
| * Lymph Node, Mesenteric                                    |               | Hyperplasia          | Lymphoid, Mild    |
| * Mammary Gland   |               | Hyperplasia          | Marked            |
| [ Hyperplasia TGLs = 1-8 ]                                  |               |                      |                   |
| * Pancreas  |               | Atrophy              | Mild              |
| * Pituitary Gland   | Pars Distalis | Adenoma              |                   |
| [ Adenoma TGLs = 4-1 ]                                      |               |                      |                   |
| * Prostate  | Epithelium    | Hyperplasia          | Minimal           |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 79

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112044

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin		Inflammation	Chronic, Moderate
		Fibroma	
	[ Fibroma TGLs = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Atrophy	Moderate
	Artery	Inflammation	Chronic, Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 80

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112045

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Nose                   | * Parathyroid Gland        |
| * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                            |                   |
|--------------------------|---|----------------------------|-------------------|
| * Adrenal Cortex         |   | Degeneration               | Fatty, Minimal    |
|                          |   | Hypertrophy                | Focal, Minimal    |
| * Adrenal Medulla        |   | Pheochromocytoma Benign    |                   |
|                          | [ Pheochromocytoma Benign TGLs = 4-10 ]                                       |                            |                   |
| * Brain                  |   | Compression                | Moderate          |
|                          | [ Compression TGLs = 7-1 ]  |                            |                   |
| * Heart                  |   | Cardiomyopathy             | Moderate          |
| * Kidney                 |   | Inflammation               | Chronic, Moderate |
|                          |   | Nephropathy                | Moderate          |
| * Liver                  |   | Clear Cell Focus           |                   |
|                          |   | Hepatodiaphragmatic Nodule |                   |
|                          | Bile Duct   | Hyperplasia                | Minimal           |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 5-22 ]                                    | Leukemia Mononuclear       |                   |
|                          | Lymph Node  | Leukemia Mononuclear       |                   |
|                          | Mediastinal   | Hyperplasia                | Lymphoid, Mild    |
| * Lymph Node, Mesenteric |   | Hyperplasia                | Marked            |
| * Mammary Gland          |   |                            |                   |
|                          | Note: REACTIVE GRANULOMATOUS TISSUE WITHIN AREA OF MAMMARY GLAND HYPERPLASIA. |                            |                   |
|                          | [ Hyperplasia TGLs = 1-21,2-8 ]   |                            |                   |
| Mesentery                |   | Mesothelioma Malignant     |                   |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 80

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112045

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Mesothelioma Malignant TGLs = 3-7-1,3-23 ]		
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
	Artery	Inflammation	Chronic, Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 81

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112046

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy Thrombosis	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Alveolar/Bronchiolar Carcinoma Infiltration Cellular	Histiocyte, Minimal
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-22 ]		
	Lymph Node	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Mediastinal	Ectasia	Mild
		Leukemia Mononuclear Carcinoma	
* Mammary Gland		Hyperplasia	Moderate
	[ Carcinoma TGLs = 1-21 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 81

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112046

**ORGAN AND ACCOUNTABLE SITE STATUS**

Oral Mucosa	Olfactory Epi	Inflammation	Chronic, Mild
[ Squamous Cell Papilloma TGLs = 8-25 ]		Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Squamous Cell Papilloma	
[ Adenoma TGLs = 7-1 ]	Pars Distalis	Adenoma	
* Prostate		Angiectasis	Mild
* Skin	Epidermis	Inflammation	Chronic, Mild
[ Hyperplasia TGLs = 5-23,6-24 ]	Epidermis, SOA	Hyperplasia	Moderate
[ Ulcer TGLs = 5-23,6-24 ]		Hyperplasia	Minimal
* Spleen		Ulcer	Marked
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstit Cell	Edema	Mild
[ Adenoma TGLs = 2-7 ]	Germinal Epith	Adenoma	
[ Atrophy TGLs = 3-7 ]		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 82

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule Degeneration	Fatty, Minimal
* Adrenal Medulla	Pheochromocytoma Benign	
* Epididymis	Inflammation	Chronic, Moderate
* Heart	Cardiomyopathy	Moderate
* Islets, Pancreatic	Adenoma Hyperplasia	Mild
[ Adenoma TGLs = 2-7 ]		
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma Hepatodiaphragmatic Nodule Hyperplasia Leukemia Mononuclear	Mild
	Bile Duct	

Note: EOSINOPHILIC FOCUS IS ON SLIDE 22.

[ Hepatocellular Adenoma TGLs = 5-21 ]

[ Hepatodiaphragmatic Nodule TGLs = 6-22 ]

[ Hyperplasia TGLs = 4-6 ]

[ Leukemia Mononuclear TGLs = 4-6 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 82

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112047

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node	Pancreatic	Ectasia	Marked
	Pancreatic	Hyperplasia	Lymphoid, Moderate
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
	[ Ectasia TGLs = 1-24 ]		
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas	Olfactory Epi	Metaplasia	Respiratory, Minimal
		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 7-23 ]		
	[ Ulcer TGLs = 7-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
	[ Hematopoietic Cell Proliferation TGLs = 3-6 ]		
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Testes	Germinal Epith	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 83

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112048

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation Nephropathy	Chronic, Mild Mild
* Liver	Bile Duct	Clear Cell Focus Hyperplasia	Minimal
	[ Clear Cell Focus TGLs = 5-22 ]		
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLs = 1-8,2-21 ]		
* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Minimal Chronic, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
	[ Adenoma TGLs = 7-1 ]		
* Preputial Gland		Cyst Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 83

TMT: 3

SEX: Male

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112048

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Cyst TGLs = 3-8 ]			
	[ Inflammation TGLs = 3-8 ]			
* Prostate			Inflammation	Chronic, Moderate
* Skin		Epidermis	Hyperplasia	Marked
			Inflammation	Chronic, Marked
	[ Hyperplasia TGLs = 6-23 ]			
	[ Inflammation TGLs = 6-23 ]			
* Spleen			Hematopoietic Cell Proliferation	Minimal
* Testes		Interstitial Cell	Adenoma	
		Germinal Epith	Atrophy	Mild
		Interstitial Cell	Hyperplasia	Minimal
	[ Adenoma TGLs = 4-7 ]			
* Thyroid Gland		C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 84

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112049

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Malignant	
	[ Pheochromocytoma Malignant TGLs = 6-10 ]		
* Brain		Compression	Marked
	[ Compression TGLs = 9-1 ]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Leukemia Mononuclear	
	[ Hyperplasia TGLs = 7-6 ]	Vacuolization Cytoplasmic	Mild
	[ Leukemia Mononuclear TGLs = 7-6 ]		
Lymph Node	Pancreatic	Ectasia	Mild
	Pancreatic	Hemorrhage	Minimal
	Pancreatic	Pigmentation	Moderate

Note: LYMPH NODE, MEDIASTINAL - MISSING.  
 [ Ectasia TGLs = 2-7 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 84

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112049

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Atrophy	Mild
		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]		
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
	[ Hyperplasia TGLs = 3-7-1 ]		
	[ Inflammation TGLs = 3-7-1 ]		
* Skin	SOA	Fibroma	
		Hyperkeratosis	Minimal
	[ Fibroma TGLs = 1-21 ]		
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 85

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112050

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Bone                      | * Brain                  | * Epididymis               |
| * Esophagus               | * Eye                       | * Harderian Gland        | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Mammary Gland             | * Nose                   | * Parathyroid Gland        |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                       |                      |
|--------------------------|---|-----------------------|----------------------|
| * Adrenal Medulla        |   | Hyperplasia           | Minimal              |
| * Bone Marrow            |   | Leukemia Mononuclear  |                      |
|                          |   | Thrombosis            | Marked               |
| * Heart                  |   | Schwannoma Malignant  |                      |
|                          |   | Thrombosis            | Marked               |
|                          | [ Schwannoma Malignant TGLs = 11-23,12-12 ] |                       |                      |
|                          | [ Thrombosis TGLs = 10-12 ]                 |                       |                      |
| * Intestine Large, Cecum |   | Edema                 | Mild                 |
| * Kidney                 |   | Nephropathy           | Mild                 |
| * Liver                  | Bile Duct                                   | Hyperplasia           | Moderate             |
|                          | Centrilobular                               | Leukemia Mononuclear  |                      |
|                          |   | Necrosis              | Moderate             |
|                          | [ Hyperplasia TGLs = 8-6 ]                  |                       |                      |
|                          | [ Leukemia Mononuclear TGLs = 8-6 ]         |                       |                      |
|                          | [ Necrosis TGLs = 8-6 ]                     |                       |                      |
| * Lung                   |   | Infiltration Cellular | Histiocyte, Moderate |
|                          |   | Leukemia Mononuclear  |                      |
|                          |   | Metaplasia            | Osseous, Minimal     |
|                          | [ Infiltration Cellular TGLs = 13-2 ]       |                       |                      |
|                          | [ Leukemia Mononuclear TGLs = 13-2 ]        |                       |                      |
| Lymph Node               | Pancreatic                                  | Leukemia Mononuclear  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 85

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112050

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: LYMPH NODE, MEDIASTINAL - MISSING.

[ Leukemia Mononuclear TGLs = 4-22 ]

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Intermed	Cyst	
	Pars Distalis	Cyst	
	[ Cyst TGLs = 14-1 ]		
	[ Cyst TGLs = 14-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[ Leukemia Mononuclear TGLs = 5-6,5-21 ]		
	[ Necrosis TGLs = 6-21 ]		
* Stomach, Forestomach		Ulcer	Marked
	[ Ulcer TGLs = 9-4 ]		
* Stomach, Glandular		Edema	Moderate
		Erosion	Mild
		Ulcer	Moderate
	[ Erosion TGLs = 9-4 ]		
	[ Ulcer TGLs = 9-4 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 2-7 ]		
	[ Atrophy TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Heart Schwannoma Malignant  
 CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis  
 - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 86

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112051

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Mammary Gland             | * Parathyroid Gland      |
| * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                                   |                     |
|--------------------------|--|-----------------------------------|---------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |                     |
|                          |  | Degeneration                      | Fatty, Minimal      |
|                          |  | Hypertrophy                       | Focal, Mild         |
| * Adrenal Medulla        |  | Hyperplasia                       | Moderate            |
| * Heart                  |  | Cardiomyopathy                    | Moderate            |
| * Kidney                 |  | Nephropathy                       | Mild                |
| * Liver                  |  | Clear Cell Focus                  |                     |
|                          |  | Hepatocellular Carcinoma          |                     |
|                          |  | Infiltration Cellular             | Mixed Cell, Minimal |
|                          |  | Leukemia Mononuclear              |                     |
|                          | [ Hepatocellular Carcinoma TGLs = 1-21 ]                                     |                                   |                     |
| * Lung                   |  | Inflammation                      | Chronic, Minimal    |
| * Lymph Node, Mesenteric |  | Hyperplasia                       | Lymphoid, Mild      |
| Mesentery                |  | Mesothelioma Malignant            |                     |
|                          | Note: MESOTHELIOMA IS RELATIVELY SMALL AND INVOLVES EPIDIDYMIS ON SLIDE 7-1. |                                   |                     |
| * Nose                   |  | Foreign Body                      |                     |
|                          | Respirat Epi   | Hyperplasia                       | Mild                |
|                          |  | Inflammation                      | Chronic, Minimal    |
|                          | Olfactory Epi  | Metaplasia                        | Respiratory, Mild   |
| * Pancreas               |  | Atrophy                           | Minimal             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 86

TMT: 3

SEX: Male

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112051

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Intermed Pars Distalis	Cyst Hyperplasia	Focal, Moderate
* Prostate		Inflammation	Chronic, Minimal
* Skin	SOA Epidermis	Hyperkeratosis Hyperplasia Ulcer	Minimal Moderate Moderate
	[ Hyperplasia TGLs = 2-22 ] [ Ulcer TGLs = 2-22 ]		
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal

Animal Note: MONONUCLEAR CELL LEUKEMIA IS IN AN EARLY STAGE.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 87

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112052

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Mammary Gland           | * Nose                      | * Parathyroid Gland      | * Prostate                 |
| * Seminal Vesicle         | * Thymus                    | * Trachea                | * Urinary Bladder          |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Thyroid Gland

**OBSERVATIONS**

- |   |                             |                         |                     |
|---|-----------------------------|-------------------------|---------------------|
| * Adrenal Cortex<br>[ Necrosis TGLs = 4-10 ]  |                             | Necrosis                | Marked              |
| * Adrenal Medulla<br>[ Pheochromocytoma Benign TGLs = 4-10 ]  |                             | Pheochromocytoma Benign |                     |
| * Bone Marrow   |                             | Hyperplasia             | Moderate            |
| * Heart<br>[ Cardiomyopathy TGLs = 10-12 ]  |                             | Cardiomyopathy          | Moderate            |
| * Islets, Pancreatic<br>[ Adenoma TGLs = 3-7 ]  |                             | Adenoma                 |                     |
| * Kidney  |                             | Nephropathy             | Minimal             |
| * Liver<br>[ Necrosis TGLs = 7-6 ]  | Centrilobular               | Necrosis                | Marked              |
| * Lung  |                             | Infiltration Cellular   | Histiocyte, Minimal |
| Note: LEUKOCYTOSIS (POLYMORPHONUCLEAR CELL INFILTRATE) IN CAPILLARIES AND BLOOD VESSELS; TDMS WILL NOT ALLOW ENTRY.<br>[ Infiltration Cellular TGLs = 9-2 ] |                             |                         |                     |
| Lymph Node  | Mediastinal                 | Hemorrhage              | Mild                |
|   | Mediastinal                 | Hyperplasia             | Lymphoid, Moderate  |
|   | [ Hemorrhage TGLs = 8-22 ]  |                         |                     |
|   | [ Hyperplasia TGLs = 8-22 ] |                         |                     |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 87

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112052

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Carcinoma	
	[ Carcinoma TGLs = 1-21 ]		
* Salivary Glands		Necrosis	Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Moderate
* Stomach, Forestomach		Ulcer	Minimal
* Stomach, Glandular		Erosion	Moderate
	[ Erosion TGLs = 11-4 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	[ Adenoma TGLs = 2-7 ]		

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 88

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 659

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112053

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Edema	Mild
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Necrosis	Minimal
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Hyperplasia TGLs = 9-6 ]		
	[ Leukemia Mononuclear TGLs = 9-6 ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 11-2 ]		
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Ectasia TGLs = 10-3 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 88

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 659

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112053

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 10-3 ]		
	[ Leukemia Mononuclear TGLs = 4-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 7-5 ]		
Mesentery	Fat	Necrosis	Minimal
	[ Necrosis TGLs = 3-22 ]		
* Nose		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Cyst	
* Pituitary Gland	Pars Intermed	Cyst	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Carcinoma	
		Inflammation	Chronic, Mild
	[ Carcinoma TGLs = 1-21 ]		
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[ Leukemia Mononuclear TGLs = 5-25 ]		
	[ Necrosis TGLs = 6-23 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 2-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Carcinoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 89

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112054

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Nose                      | * Salivary Glands        | * Seminal Vesicle          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                         |                 |
|--------------------------|--|-------------------------|-----------------|
| * Adrenal Cortex         |  | Degeneration            | Fatty, Moderate |
|                          |  | Leukemia Mononuclear    |                 |
| * Adrenal Medulla        |  | Pheochromocytoma Benign |                 |
| * Bone Marrow            |  | Leukemia Mononuclear    |                 |
| * Brain                  |  | Compression             | Mild            |
|                          |  | Hemorrhage              | Mild            |
|                          | [ Compression TGLs = 11-1 ]              |                         |                 |
| * Heart                  |  | Cardiomyopathy          | Moderate        |
| * Kidney                 |  | Leukemia Mononuclear    |                 |
|                          |  | Nephropathy             | Marked          |
|                          | [ Nephropathy TGLs = 7-5 ]               |                         |                 |
| * Liver                  |  | Basophilic Focus        |                 |
|                          | Bile Duct                                | Hyperplasia             | Mild            |
|                          |  | Leukemia Mononuclear    |                 |
|                          | [ Leukemia Mononuclear TGLs = 8-6 ]      |                         |                 |
| * Lung                   |  | Leukemia Mononuclear    |                 |
| Lymph Node               |  |                         |                 |
|                          | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                         |                 |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear    |                 |
| * Mammary Gland          |  | Hyperplasia             | Marked          |
|                          | [ Hyperplasia TGLs = 1-21 ]              |                         |                 |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 89

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112054

**ORGAN AND ACCOUNTABLE SITE STATUS**

Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 5-22 ]			
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild
Note: PARATHYROID GLAND HYPERPLASIA IS BILATERAL AND MAY BE SECONDARY TO KIDNEY NEPHROPATHY.			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: PITUITARY GLAND ADENOMA IS MARKEDLY NECROTIC AND HEMORRHAGIC.			
[ Adenoma TGLs = 10-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
[ Inflammation TGLs = 6-7-1 ]			
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
[ Hyperplasia TGLs = 9-23 ]			
[ Ulcer TGLs = 9-23 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 2-6 ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
[ Atrophy TGLs = 4-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 90

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112055

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Parathyroid Gland      | * Preputial Gland          |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |   |  |
|--------------------------|--|---|--|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hypertrophy<br>Hyperplasia<br>Compression<br>Cardiomyopathy<br>Inflammation<br>Nephropathy<br>Basophilic Focus<br>Clear Cell Focus | Fatty, Minimal<br>Focal, Minimal<br>Minimal<br>Mild<br>Moderate<br>Chronic, Mild<br>Mild |
| * Adrenal Medulla        |  |   |  |
| * Brain                  |  |   |  |
| * Heart                  |  |   |  |
| * Kidney                 |  |   |  |
| * Liver                  | Hepatocyte                               | Hyperplasia<br>Leukemia Mononuclear   | Focal, Mild  |
|                          | [ Hyperplasia TGLs = 3-21 ]              |   |  |
| * Lung                   |  | Inflammation  | Chronic, Minimal   |
| Lymph Node               |  |   |  |
|                          | Note: LYMPH NODE, MEDIASTINAL - MISSING. |   |  |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear<br>Hyperplasia   | Marked   |
| * Mammary Gland          |  |   |  |
|                          | [ Hyperplasia TGLs = 1-8 ]               |   |  |
| * Pancreas               |  | Atrophy   | Minimal  |
| * Pituitary Gland        | Pars Distalis                            | Adenoma   |  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 90

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112055

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 6-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin		Cyst Epithelial Inclusion	
	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
[ Cyst Epithelial Inclusion TGLs = 5-23 ]			
[ Hyperplasia TGLs = 4-22 ]			
[ Ulcer TGLs = 4-22 ]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

**ANIMAL NUM:** 91

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 306

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112056

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 92

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 530

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112057

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	Skeletal Muscle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLs = 2-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 3-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 92

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 530

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112057

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 93

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112058

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
		[ Necrosis TGLs = 2-21 ]	
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLs = 4-1 ]	
* Preputial Gland		Adenoma	
* Prostate		Inflammation	Chronic, Mild
		[ Inflammation TGLs = 3-7-1 ]	
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 93

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112058

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLs = 1-7 ]

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 94

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112059

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Harderian Gland		Atrophy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
	[ Hyperplasia TGLs = 10-6 ]	Vacuolization Cytoplasmic	Mild
	[ Leukemia Mononuclear TGLs = 10-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin		Fibroma	
	[ Fibroma TGLs = 2-21 ]		
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 94

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112059

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Leukemia Mononuclear TGLs = 4-6 ]

\* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

\* Thyroid Gland

Follicular Cel

Adenoma

---

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 95

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112060

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Parathyroid Gland        |
| * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        | * Spleen                   |
| * Stomach, Forestomach    | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |   |                            |
|-------------------|--|---|----------------------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule<br>Hyperplasia                    | Focal, Minimal             |
| * Adrenal Medulla | [ Pheochromocytoma Benign TGLs = 5-10 ]  | Pheochromocytoma Benign   |                            |
| * Brain           |  | Compression   | Mild                       |
| * Heart           |  | Cardiomyopathy  | Moderate                   |
| * Kidney          |  | Cyst<br>Inflammation  | Chronic, Mild              |
| * Liver           |  | Nephropathy<br>Basophilic Focus<br>Clear Cell Focus<br>Degeneration | Moderate                   |
|                   | Bile Duct                                | Hyperplasia<br>Mixed Cell Focus                                     | Cystic, Minimal<br>Minimal |
| * Lung            |  | Inflammation  | Chronic, Minimal           |
| Lymph Node        | Note: LYMPH NODE, MEDIASTINAL - MISSING. |   |                            |
| * Mammary Gland   |  | Hyperplasia   | Moderate                   |
|                   | [ Hyperplasia TGLs = 1-8 ]               |   |                            |
| * Pancreas        |  | Atrophy   | Mild                       |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 95

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112060

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 7-1 ]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia	Moderate
		Keratoacanthoma	
		Ulcer	Moderate
[ Hyperplasia TGLs = 6-22 ]			
[ Keratoacanthoma TGLs = 2-21 ]			
[ Ulcer TGLs = 6-22 ]			
* Stomach, Glandular		Edema	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLs = 3-7 ]			



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 96

**TMT:** 3  
**DOSE:** 10 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 687  
**HISTO:** 112061

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          |
| * Salivary Glands         | * Seminal Vesicle           | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                       |                       |                     |
|--------------------------|---------------------------------------|-----------------------|---------------------|
| * Adrenal Cortex         |                                       | Hypertrophy           | Focal, Minimal      |
|                          |                                       | Leukemia Mononuclear  |                     |
| * Adrenal Medulla        |                                       | Hyperplasia           | Minimal             |
| * Bone Marrow            |                                       | Leukemia Mononuclear  |                     |
| * Heart                  |                                       | Cardiomyopathy        | Minimal             |
|                          |                                       | Thrombosis            | Marked              |
|                          | [ Thrombosis TGLs = 13-12 ]           |                       |                     |
| * Islets, Pancreatic     |                                       | Hyperplasia           | Minimal             |
| * Kidney                 |                                       | Leukemia Mononuclear  |                     |
|                          |                                       | Nephropathy           | Mild                |
| * Liver                  | Bile Duct                             | Hyperplasia           | Moderate            |
|                          |                                       | Leukemia Mononuclear  |                     |
|                          | Centrilobular                         | Necrosis              | Mild                |
|                          |                                       | Thrombosis            | Marked              |
|                          | [ Hyperplasia TGLs = 11-6 ]           |                       |                     |
|                          | [ Leukemia Mononuclear TGLs = 11-6 ]  |                       |                     |
| * Lung                   |                                       | Infiltration Cellular | Histiocyte, Minimal |
|                          |                                       | Leukemia Mononuclear  |                     |
| Lymph Node               | Mediastinal                           | Leukemia Mononuclear  |                     |
|                          | [ Leukemia Mononuclear TGLs = 12-25 ] |                       |                     |
| * Lymph Node, Mesenteric |                                       | Leukemia Mononuclear  |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 96

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 687

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112061

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 8-23,10-24 ]		
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLs = 1-21 ]		
* Pituitary Gland	Pars Intermed	Cyst	
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Accessory Spleen	
		Leukemia Mononuclear	
	[ Accessory Spleen TGLs = 7-22 ]		
	[ Leukemia Mononuclear TGLs = 5-26,6-26 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate
	[ Ulcer TGLs = 14-4 ]		
* Stomach, Glandular		Erosion	Mild
		Ulcer	Mild
	[ Erosion TGLs = 14-4 ]		
	[ Ulcer TGLs = 14-4 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 97

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112062

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric  |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                            |                       |                      |
|----------------------|----------------------------|-----------------------|----------------------|
| * Adrenal Cortex     |                            | Degeneration          | Fatty, Minimal       |
|                      |                            | Hypertrophy           | Focal, Mild          |
| * Adrenal Medulla    |                            | Hyperplasia           | Mild                 |
| * Bone Marrow        |                            | Hyperplasia           | Moderate             |
| * Brain              |                            | Compression           | Moderate             |
|                      | [ Compression TGLs = 6-1 ] |                       |                      |
| * Heart              |                            | Cardiomyopathy        | Moderate             |
| * Islets, Pancreatic |                            | Adenoma               |                      |
| * Kidney             |                            | Inflammation          | Chronic, Mild        |
|                      |                            | Inflammation          | Suppurative, Minimal |
|                      |                            | Nephropathy           | Mild                 |
| * Liver              |                            | Basophilic Focus      |                      |
|                      | Bile Duct                  | Hyperplasia           | Minimal              |
|                      |                            | Mixed Cell Focus      |                      |
| * Lung               |                            | Edema                 | Mild                 |
|                      |                            | Infiltration Cellular | Histiocyte, Moderate |
| * Mammary Gland      |                            | Hyperplasia           | Moderate             |
|                      | [ Hyperplasia TGLs = 1-8 ] |                       |                      |
| Mesentery            |                            |                       |                      |
|                      | [ Necrosis TGLs = 3-24 ]   |                       |                      |
| * Pituitary Gland    |                            | Necrosis              | Moderate             |
|                      | Pars Distalis              | Adenoma               | Multiple             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 97

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112062

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Adenoma TGLs = 7-1 ]			
* Preputial Gland			Inflammation	Chronic, Mild
* Prostate			Adenoma	
	Epithelium		Hyperplasia	Minimal
			Inflammation	Chronic, Mild
Skeletal Muscle			Rhabdomyosarcoma	
	[ Rhabdomyosarcoma TGLs = 5-21 ]			
* Skin		Epidermis	Hyperplasia	Moderate
			Ulcer	Marked
	[ Hyperplasia TGLs = 8-22 ]			
* Spleen			Hematopoietic Cell Proliferation	Moderate
* Testes		Interstit Cell	Adenoma	
		Germinal Epith	Atrophy	Minimal
		Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLs = 2-7 ]			
Tongue			Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLs = 9-23 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 98

**TMT:** 3  
**DOSE:** 10 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 701  
**HISTO:** 112063

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Focal, Minimal
	[ Hepatodiaphragmatic Nodule TGLs = 5-22 ]		
* Lung		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin		Lipoma	
	[ Lipoma TGLs = 2-21 ]		
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 98

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 701

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112063

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 3-7 ]	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Marked Mild
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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 99

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112064

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Parathyroid Gland        |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |   |   |                               |
|--|---|---|-------------------------------|
| * Adrenal Cortex                         |   | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Mild                   |
| * Adrenal Medulla                        |   | Hyperplasia<br>Pheochromocytoma Benign            | Moderate                      |
| * Brain                                  | [ Compression TGLs = 10-1 ]             | Compression                                       | Mild                          |
| * Heart                                  |   | Cardiomyopathy                                    | Mild                          |
| * Kidney                                 |   | Inflammation<br>Nephropathy                       | Chronic, Moderate<br>Moderate |
| * Liver                                  | Bile Duct<br>[ Hyperplasia TGLs = 6-6 ] | Hyperplasia                                       | Mild                          |
| * Lung                                   |   | Infiltration Cellular                             | Histiocyte, Minimal           |
| Lymph Node                               | Pancreatic                              | Hemorrhage  | Minimal                       |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |   |   |                               |
|  | [ Hemorrhage TGLs = 4-7 ]               |   |                               |
| * Mammary Gland                          |   | Hyperplasia                                       | Marked                        |
|  | [ Hyperplasia TGLs = 1-8 ]              |   |                               |
| * Pancreas                               |   | Atrophy   | Marked                        |
| * Pituitary Gland                        | Pars Distalis                           | Adenoma   |                               |
|  | [ Adenoma TGLs = 9-1 ]                  |   |                               |
| * Preputial Gland                        |   | Inflammation                                      | Chronic, Mild                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 99

TMT: 3

SEX: Male

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112064

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
[ Inflammation TGLs = 3-7-1 ]			
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
[ Hyperplasia TGLs = 8-21 ]			
[ Ulcer TGLs = 8-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Adenoma	



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 100

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112065

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Medulla         | * Bone                      | * Epididymis               | * Esophagus              |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Nose                   |
| * Parathyroid Gland       | * Preputial Gland           | * Salivary Glands          | * Seminal Vesicle        |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular       | * Thymus                 |
| * Trachea                 | * Urinary Bladder           |                            |                          |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Ileum
- \* Thyroid Gland

**OBSERVATIONS**

- |                          |                                     |                                   |          |
|--------------------------|-------------------------------------|-----------------------------------|----------|
| * Adrenal Cortex         |                                     | Accessory Adrenal Cortical Nodule |          |
| * Bone Marrow            |                                     | Leukemia Mononuclear              |          |
| * Brain                  |                                     | Compression                       | Moderate |
|                          |                                     | Hemorrhage                        | Minimal  |
|                          |                                     | Necrosis                          | Minimal  |
|                          | [ Compression TGLs = 7-1 ]          |                                   |          |
| * Heart                  |                                     | Cardiomyopathy                    | Moderate |
| * Islets, Pancreatic     |                                     | Adenoma                           |          |
| * Kidney                 |                                     | Nephropathy                       | Mild     |
| * Liver                  | Bile Duct                           | Hyperplasia                       | Mild     |
|                          |                                     | Leukemia Mononuclear              |          |
|                          | [ Hyperplasia TGLs = 4-6 ]          |                                   |          |
|                          | [ Leukemia Mononuclear TGLs = 4-6 ] |                                   |          |
| * Lung                   |                                     | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 5-2 ] |                                   |          |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear              |          |
| * Mammary Gland          |                                     | Hyperplasia                       | Marked   |
|                          | [ Hyperplasia TGLs = 1-8 ]          |                                   |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 100

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112065

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 2-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 101

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112066

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Parathyroid Gland        | * Preputial Gland         | * Salivary Glands           |
| * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

**OBSERVATIONS**

- |  |                             |                                  |                     |
|--|-----------------------------|----------------------------------|---------------------|
| * Adrenal Medulla                        |                             | Hyperplasia                      | Mild                |
|  |                             | Pheochromocytoma Benign          |                     |
| * Heart                                  |                             | Cardiomyopathy                   | Moderate            |
| * Islets, Pancreatic                     |                             | Hyperplasia                      | Mild                |
| * Kidney                                 |                             | Inflammation                     | Chronic, Mild       |
|  |                             | Nephropathy                      | Mild                |
|  | [ Inflammation TGLs = 3-5 ] |                                  |                     |
|  | [ Nephropathy TGLs = 3-5 ]  |                                  |                     |
| * Liver                                  |                             | Basophilic Focus                 |                     |
|  |                             | Clear Cell Focus                 |                     |
|  | Bile Duct                   | Hyperplasia                      | Mild                |
| * Lung                                   |                             | Infiltration Cellular            | Histiocyte, Minimal |
| Lymph Node                               |                             |                                  |                     |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                             |                                  |                     |
| * Nose                                   | Respirat Epith              | Hyperplasia                      | Mild                |
|  |                             | Inflammation                     | Chronic, Minimal    |
| * Pancreas                               |                             | Atrophy                          | Moderate            |
| * Pituitary Gland                        | Pars Distalis               | Hyperplasia                      | Focal, Moderate     |
| * Prostate                               |                             | Inflammation                     | Chronic, Minimal    |
| * Skin                                   | SOA                         | Hyperkeratosis                   | Minimal             |
| * Spleen                                 |                             | Hematopoietic Cell Proliferation | Mild                |
| * Testes                                 | Interstit Cell              | Adenoma                          |                     |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 101

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112066

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Germinal Epith

Atrophy

Moderate

[ Adenoma TGLs = 1-7 ]

\* Thymus

Note: THYMUS IS ON SLIDE 4.

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 102

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 633

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112067

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mandibular	* Salivary Glands
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Hyperplasia	Fatty, Moderate Focal, Moderate Minimal
* Adrenal Medulla			
* Eye			
Note: ONE EYE APPEARS TO BE DAMAGED DUE TO TISSUE ARTIFACT.			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Pituitary Gland	Pars Distalis	Adenoma Pigmentation	Moderate
	[ Adenoma TGLs = 3-1 ]		
	[ Pigmentation TGLs = 3-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 102

TMT: 5

SEX: Male

DAY ON TEST: 633

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112067

ORGAN AND ACCOUNTABLE SITE STATUS

\* Saliv Glands

Note: SALIVARY GLAND OBSCURED BY SKIN SCHWANNOMA.

\* Skin

SOA

Hyperkeratosis

Minimal

Epidermis

Hyperplasia

Marked

Control Epider

Hyperplasia

Minimal

Schwannoma Malignant

Ulcer

Marked

[ Hyperplasia TGLs = 2-22 ]

[ Schwannoma Malignant TGLs = 1-21,1-21-1 ]

[ Ulcer TGLs = 2-22 ]

\* Spleen

Hematopoietic Cell Proliferation

Mild

\* Testes

Interstit Cell

Adenoma

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Skin Schwannoma Malignant

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 103

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112068

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Epididymis               | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric  |
| * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
| * Adrenal Cortex     |   | Degeneration         | Fatty, Mild          |
|                      |   | Hyperplasia          | Focal, Mild          |
|                      |   | Leukemia Mononuclear |                      |
| * Bone Marrow        |   | Leukemia Mononuclear |                      |
| * Brain              |   | Compression          | Moderate             |
|                      | [ Compression TGLs = 8-1 ]                    |                      |                      |
| * Harderian Gland    |   | Hyperplasia          | Focal, Minimal       |
| * Heart              |   | Cardiomyopathy       | Moderate             |
| * Islets, Pancreatic |   | Adenoma              |                      |
| * Kidney             |   | Leukemia Mononuclear |                      |
|                      |   | Nephropathy          | Moderate             |
| * Liver              | Bile Duct                                     | Hyperplasia          | Moderate             |
|                      |   | Leukemia Mononuclear |                      |
|                      | [ Hyperplasia TGLs = 4-6 ]                    |                      |                      |
|                      | [ Leukemia Mononuclear TGLs = 4-6 ]           |                      |                      |
| * Lung               |   | Leukemia Mononuclear |                      |
| * Lym Node Mand      |   |                      |                      |
|                      | Note: NO MANDIBULAR LYMPH NODE FOUND (TGL 1). |                      |                      |
|                      | Lymph Node                                    | Mediastinal          | Leukemia Mononuclear |
| * Mammary Gland      |   | Hyperplasia          | Marked               |
|                      | [ Hyperplasia TGLs = 2-21,3-8 ]               |                      |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 103

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112068

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [ Necrosis TGLs = 7-22 ]	Fat	Necrosis	Minimal
* Nose		Foreign Body Fungus	
	Respirat Epith	Hyperplasia Inflammation	Minimal Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pituitary Gland [ Adenoma TGLs = 9-1 ]	Olfactory Epi Pars Distalis	Metaplasia Adenoma	Respiratory, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen [ Leukemia Mononuclear TGLs = 5-6 ]		Leukemia Mononuclear	
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Minimal
[ Adenoma TGLs = 6-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 104

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 657  
**HISTO:** 112069

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Compression Cardiomyopathy	Fatty, Mild Focal, Mild Mild Minimal
* Brain			
* Heart			
* Kidney	Renal Tubule	Adenoma Nephropathy	Multiple Moderate
* Liver	Bile Duct	Hyperplasia Mixed Cell Focus	Minimal
Lymph Node	Pancreatic Mediastinal Deep Cervical Mediastinal	Hemorrhage Hemorrhage Hyperplasia Hyperplasia	Mild Minimal Lymphoid, Moderate Lymphoid, Moderate
	[ Hemorrhage TGLs = 2-7 ]		
	[ Hemorrhage TGLs = 10-3 ]		
	[ Hyperplasia TGLs = 11-22 ]		
	[ Hyperplasia TGLs = 10-3 ]		
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 104

TMT: 5

SEX: Male

DAY ON TEST: 657

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112069

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pituitary Gland	Respirat Epith	Metaplasia	Squamous, Moderate
	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[ Adenoma TGLs = 13-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLs = 12-23 ]			
[ Ulcer TGLs = 12-23 ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 105

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 112070

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone                   | * Epididymis               | * Esophagus               | * Eye                       |
| * Harderian Gland        | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |   |                    |
|--------------------------|--|---|--------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Moderate    |
| * Adrenal Medulla        |  | Pheochromocytoma Benign                           |                    |
|                          | [ Pheochromocytoma Benign TGLs = 5-10 ]                              |   |                    |
| * Bone Marrow            |  | Hyperplasia                                       | Marked             |
| * Brain                  |  | Hemorrhage  | Minimal            |
|                          | [ Hemorrhage TGLs = 21-1 ]   |   |                    |
| * Heart                  |  | Cardiomyopathy                                    | Moderate           |
| * Intestine Large, Cecum |  | Edema   | Mild               |
|                          | [ Edema TGLs = 24-4 ]  |   |                    |
| * Islets, Pancreatic     |  | Hyperplasia                                       | Minimal            |
| * Liver                  |  | Histiocytic Sarcoma                               |                    |
|                          | [ Histiocytic Sarcoma TGLs = 6-24,7-25,8-26,9-27,10-28,11-24,11-28 ] |   |                    |
| * Lung                   |  | Histiocytic Sarcoma                               | Metastatic (Liver) |
|                          | [ Histiocytic Sarcoma TGLs = 14-29,15-30,16-31,17-32,18-33,19-2 ]    |   |                    |
| Lymph Node               |  | Hemorrhage  | Moderate           |
|                          | Mediastinal  | Histiocytic Sarcoma                               | Metastatic (Liver) |
|                          | Mediastinal  |   |                    |
|                          | [ Hemorrhage TGLs = 13-3 ]   |   |                    |
|                          | [ Histiocytic Sarcoma TGLs = 13-3 ]                                  |   |                    |
| * Lymph Node, Mesenteric |  | Hemorrhage  | Mild               |
|                          |  | Histiocytic Sarcoma                               | Metastatic (Liver) |
|                          | [ Histiocytic Sarcoma TGLs = 25-35 ]                                 |   |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 105

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112070

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 2-22 ]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 22-1 ]		
* Skin		Histiocytic Sarcoma	Metastatic (Liver)
	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
		Ulcer	Moderate
	[ Histiocytic Sarcoma TGLs = 1-21,3-23 ]		
	[ Hyperplasia TGLs = 20-34 ]		
	[ Inflammation TGLs = 20-34 ]		
	[ Ulcer TGLs = 20-34 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Ulcer	Marked
	[ Ulcer TGLs = 23-4 ]		
* Stomach, Glandular		Erosion	Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Minimal
	[ Adenoma TGLs = 4-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 106

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 673

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112071

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Thyroid Gland

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
Note: ALVEOLAR EPITHELIAL HYPERPLASIA IS ON SLIDES 2 AND 24. [ Hyperplasia TGLs = 5-24 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
* Nose	Respirat Epith	Fungus	
		Hyperplasia	Mild
		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 106

TMT: 5

SEX: Male

DAY ON TEST: 673

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 112071

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Respirat Epith	Metaplasia	Squamous, Mild
		Atrophy	Mild
* Skin		Cyst	
	SOA	Fibroma	
[ Fibroma TGLs = 1-21 ]		Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	
		Leukemia Mononuclear	
[ Histiocytic Sarcoma TGLs = 6-23 ]			
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLs = 7-7 ]			

PRIMARY CAUSE OF DEATH - Spleen Histiocytic Sarcoma  
CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 107

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112072

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
Note: THE ISLET ADENOMA CONTAINS A LARGE BLOOD LAKE. [ Adenoma TGLs = 4-7 ]			
* Kidney		Cyst	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hemorrhage TGLs = 5-3 ]			
[ Hyperplasia TGLs = 5-3 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLs = 2-21 ]			
[ Hyperplasia TGLs = 1-8 ]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 107

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112072

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Fibroma	Marked
		Hyperplasia	Moderate
		Ulcer	
	[ Fibroma TGLs = 7-23 ]		
	[ Hyperplasia TGLs = 6-22 ]		
	[ Ulcer TGLs = 6-22 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 3-7 ]		
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 108

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112073

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       | * Pituitary Gland           |
| * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |                           |                                  |                  |
|--|---------------------------|----------------------------------|------------------|
| * Adrenal Cortex                         |                           | Degeneration                     | Fatty, Minimal   |
|  |                           | Hyperplasia                      | Focal, Moderate  |
| * Heart                                  |                           | Cardiomyopathy                   | Mild             |
| * Kidney                                 |                           | Inflammation                     | Chronic, Mild    |
|  |                           | Nephropathy                      | Mild             |
| * Liver                                  |                           | Clear Cell Focus                 |                  |
|  | Bile Duct                 | Hyperplasia                      | Minimal          |
| Lymph Node                               |                           |                                  |                  |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                           |                                  |                  |
| * Nose                                   |                           | Inflammation                     | Chronic, Minimal |
| * Pancreas                               | Acinus                    | Hyperplasia                      | Focal, Moderate  |
| * Prostate                               |                           | Inflammation                     | Chronic, Minimal |
| * Spleen                                 |                           | Hematopoietic Cell Proliferation | Minimal          |
|  | Lymph Follic              | Hyperplasia                      | Mild             |
| * Testes                                 | Bilateral, Interstit Cell | Adenoma                          |                  |
|  | Germinal Epith            | Atrophy                          | Mild             |

[ Adenoma TGLs = 1-7 ]

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 109

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 112074

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Salivary Glands           |
| * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

**OBSERVATIONS**

- |  |                           |                                   |                   |
|--|---------------------------|-----------------------------------|-------------------|
| * Adrenal Cortex                         |                           | Accessory Adrenal Cortical Nodule |                   |
| * Heart                                  |                           | Cardiomyopathy                    | Moderate          |
| * Kidney                                 |                           | Inflammation                      | Chronic, Moderate |
|  |                           | Nephropathy                       | Moderate          |
| * Liver                                  |                           | Clear Cell Focus                  |                   |
|  |                           | Degeneration                      | Cystic, Mild      |
|  | Bile Duct                 | Hyperplasia                       | Mild              |
| Lymph Node                               |                           |                                   |                   |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                           |                                   |                   |
| * Mammary Gland                          |                           | Hyperplasia                       | Minimal           |
| * Prostate                               |                           | Inflammation                      | Chronic, Minimal  |
| * Skin                                   | Epidermis                 | Hyperplasia                       | Marked            |
|  |                           | Ulcer                             | Marked            |
|  |                           | [ Hyperplasia TGLs = 2-21 ]       |                   |
|  |                           | [ Ulcer TGLs = 2-21 ]             |                   |
| * Spleen                                 |                           | Hematopoietic Cell Proliferation  | Mild              |
| * Testes                                 | Bilateral, Interstit Cell | Adenoma                           |                   |
|  |                           | [ Adenoma TGLs = 1-7 ]            |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 110

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 710

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112075

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                          |                           |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Bone                   | * Epididymis               | * Esophagus              | * Eye                     |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mesenteric  |
| * Nose                   | * Parathyroid Gland        | * Preputial Gland        | * Salivary Glands         |
| * Seminal Vesicle        | * Stomach, Glandular       | * Thymus                 | * Trachea                 |
| * Urinary Bladder        |                            |                          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                             |  |  |                               |
|-----------------------------|--|--|-------------------------------|
| * Adrenal Cortex            |  | Accessory Adrenal Cortical Nodule<br>Degeneration  | Fatty, Minimal                |
|                             |  | Hypertrophy  | Focal, Mild                   |
| * Adrenal Medulla           |  | Pheochromocytoma Benign                            |                               |
| * Bone Marrow               |  | Hyperplasia  | Mild                          |
| * Brain                     |  | Compression  | Moderate                      |
|                             | [ Compression TGLs = 6-1 ]                         |  |                               |
| * Heart                     |  | Cardiomyopathy<br>Inflammation                     | Minimal<br>Chronic, Mild      |
|                             | Note: CHRONIC INFLAMMATION INVOLVES THE A/V VALVE. |  |                               |
| * Intestine Small, Duodenum | Epithelium   | Hyperplasia  | Moderate                      |
| * Kidney                    |  | Nephropathy  | Marked                        |
|                             | [ Nephropathy TGLs = 3-5 ]                         |  |                               |
| * Liver                     |  | Infiltration Cellular<br>Vacuolization Cytoplasmic | Mixed Cell, Minimal<br>Marked |
|                             | Hepatocyte   | Alveolar/Bronchiolar Adenoma<br>Inflammation       | Chronic, Minimal              |
| * Lung                      |  |  |                               |
|                             | [ Alveolar/Bronchiolar Adenoma TGLs = 4-2 ]        |  |                               |
| Lymph Node                  |  |  |                               |
|                             | Note: LYMPH NODE, MEDIASTINAL - MISSING.           |  |                               |
| * Mammary Gland             |  | Hyperplasia  | Moderate                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 110

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 710

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112075

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	[ Adenoma TGLs = 2-7 ]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy  
 - Stomach, Forestomach Ulcer

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 111

TMT: 5  
 DOSE: 30 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 632  
 HISTO: 112076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
	[ Compression TGLs = 5-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	[ Leukemia Mononuclear TGLs = 3-21 ]	Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLs = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6 ]		
* Thymus		Thymoma Benign	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 111

TMT: 5

SEX: Male

DAY ON TEST: 632

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112076

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Thymoma Benign TGLs = 4-3 ]

\* Thyroid Gland

Follicle

Degeneration

Focal, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 112

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112077

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    |
| * Pancreas               | * Parathyroid Gland        | * Salivary Glands         | * Seminal Vesicle           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**OBSERVATIONS**

- |                          |                             |  |                             |
|--------------------------|-----------------------------|--|-----------------------------|
| * Adrenal Cortex         |                             | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hypertrophy | Fatty, Mild<br>Focal, Mild  |
| * Heart                  |                             | Cardiomyopathy   | Moderate                    |
| * Kidney                 |                             | Inflammation<br>Nephropathy                                      | Chronic, Moderate<br>Marked |
|                          | [ Inflammation TGLs = 3-5 ] |  |                             |
|                          | [ Nephropathy TGLs = 3-5 ]  |  |                             |
| * Liver                  |                             | Basophilic Focus<br>Clear Cell Focus                             |                             |
|                          | Bile Duct                   | Hyperplasia<br>Mixed Cell Focus                                  | Minimal                     |
| * Lung                   |                             | Inflammation   | Chronic, Minimal            |
| Lymph Node               | Mediastinal                 | Carcinoma  | Metastatic (Thyroid Gland)  |
| * Lymph Node, Mandibular |                             | Ectasia  | Marked                      |
|                          | [ Ectasia TGLs = 2-8 ]      |  |                             |
| * Mammary Gland          |                             | Hyperplasia  | Moderate                    |
|                          | [ Hyperplasia TGLs = 1-21 ] |  |                             |
| * Nose                   |                             | Inflammation   | Chronic, Minimal            |
| * Pituitary Gland        | Pars Distalis               | Adenoma  |                             |
|                          | [ Adenoma TGLs = 8-1 ]      |  |                             |
| * Preputial Gland        |                             | Inflammation   | Chronic, Mild               |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 112

TMT: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112077

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
[ Inflammation TGLs = 4-7-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLs = 7-22 ]			
[ Ulcer TGLs = 7-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
Note: THE CARCINOMA AND ADENOMA ARE ON DIFFERENT SLIDES AND IN DIFFERENT LOBES OF THYROID GLAND.			
[ Carcinoma TGLs = 5-3 ]			
Tongue		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLs = 6-23 ]			



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 113

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Tongue	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Adrenal Medulla		Pheochromocytoma Benign	Multiple
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLs = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 3-21 ]			
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Marked
	Respirat Epith	Metaplasia	Squamous, Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 113

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112078

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 6-1 ]	Pars Distalis	Adenoma	Multiple
* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Minimal
* Skin [ Hyperplasia TGLs = 4-22,5-23 ] [ Ulcer TGLs = 4-22,5-23 ]	SOA Epidermis	Hyperkeratosis Hyperplasia Ulcer	Minimal Moderate Marked
* Testes [ Adenoma TGLs = 2-7 ]	Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 114

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 708  
**HISTO:** 112079

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                          |                          |                          |
|---------------------------|--------------------------|--------------------------|--------------------------|
| * Bone                    | * Bone Marrow            | * Epididymis             | * Esophagus              |
| * Eye                     | * Harderian Gland        | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Lymph Node, Mesenteric | * Preputial Gland        |
| * Salivary Glands         | * Seminal Vesicle        | * Thymus                 | * Trachea                |
| * Urinary Bladder         |                          |                          |                          |

**MISSING**

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

**OBSERVATIONS**

- |   |            |                           |  |
|---|------------|---------------------------|--|
| * Adrenal Cortex  |            | Degeneration              | Fatty, Moderate                          |
| * Adrenal Medulla   |            | Pheochromocytoma Benign   |  |
| * Brain   |            | Compression               | Mild                                     |
|   |            | Pigmentation              | Minimal                                  |
| Note: PIGMENT-CONTAINING MACROPHAGES IN VENTRAL THALAMUS. |            |                           |  |
| * Heart   |            | Cardiomyopathy            | Moderate                                 |
| * Intestine Small, Duodenum                               | Epithelium | Hyperplasia               | Moderate                                 |
| [ Hyperplasia TGLs = 11-21 ]                              |            |                           |  |
| * Intestine Small, Jejunum                                | Epithelium | Hyperplasia               | Mild                                     |
| [ Hyperplasia TGLs = 12-22 ]                              |            |                           |  |
| * Islets, Pancreatic                                      |            | Adenoma                   |  |
| [ Adenoma TGLs = 3-7 ]                                    |            |                           |  |
| * Kidney  |            | Inflammation              | Chronic, Moderate                        |
|   |            | Nephropathy               | Marked                                   |
|   |            |                           | [ Inflammation TGLs = 7-5 ]              |
|   |            |                           | [ Nephropathy TGLs = 7-5 ]               |
| * Liver   |            | Basophilic Focus          |  |
|   | Bile Duct  | Hyperplasia               | Minimal                                  |
|   | Hepatocyte | Vacuolization Cytoplasmic | Moderate                                 |
|   |            |                           | [ Hyperplasia TGLs = 9-6 ]               |
|   |            |                           | [ Vacuolization Cytoplasmic TGLs = 9-6 ] |
| * Lung  |            | Inflammation              | Chronic, Minimal                         |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 114

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112079

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLs = 16-3 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Nose	Respirat Epith	Fungus	
		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas	Respirat Epith	Metaplasia	Squamous, Minimal
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 15-1 ]			
* Prostate		Inflammation	Chronic, Moderate
[ Inflammation TGLs = 4-7-1,5-7-1 ]			
* Skin	SOA	Hyperkeratosis	Mild
	Control Epider	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Perforation	
[ Hyperplasia TGLs = 14-4 ]			
[ Perforation TGLs = 8-24,10-4 ]			
* Stomach, Glandular		Erosion	Moderate
[ Erosion TGLs = 17-25 ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Stomach, Forestomach Perforation  
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy  
 - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 115

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 112080

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Parathyroid Gland      |
| * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |   |                            |                                   |                   |
|---|----------------------------|-----------------------------------|-------------------|
| * Adrenal Cortex  |                            | Accessory Adrenal Cortical Nodule |                   |
| * Adrenal Medulla   |                            | Pheochromocytoma Benign           |                   |
| * Heart   |                            | Cardiomyopathy                    | Moderate          |
|   |                            | Thrombosis                        | Mild              |
| Note: ATRIAL THROMBUS IS COMPOSED OF EOSINOPHILS AND SPINDLE CELLS WITH EARLY COLLAGEN FORMATION. |                            |                                   |                   |
| * Kidney  |                            | Inflammation                      | Chronic, Moderate |
|   |                            | Nephropathy                       | Moderate          |
| * Liver   |                            | Clear Cell Focus                  |                   |
|   | Bile Duct                  | Hyperplasia                       | Minimal           |
| * Lymph Node, Mesenteric  |                            | Hemorrhage                        | Minimal           |
|   |                            | Hyperplasia                       | Lymphoid, Marked  |
|   | [ Hyperplasia TGLs = 5-5 ] |                                   |                   |
| * Mammary Gland   |                            | Carcinoma                         |                   |
|   | [ Carcinoma TGLs = 2-21 ]  | Hyperplasia                       | Moderate          |
|   | [ Hyperplasia TGLs = 1-8 ] |                                   |                   |
| * Nose  |                            | Foreign Body                      |                   |
|   |                            | Inflammation                      | Chronic, Minimal  |
| * Pancreas  |                            | Atrophy                           | Mild              |
|   |                            | Cyst                              |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 115

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112080

ORGAN AND ACCOUNTABLE SITE STATUS

[ Cyst TGLs = 4-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 6-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Moderate
[ Adenoma TGLs = 3-7 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 116

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112081

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Mild
* Liver	Clear Cell Focus	
	Bile Duct	Mild
Lymph Node	Mediastinal	Minimal
[ Hemorrhage TGLs = 5-3 ]		
* Pancreas	Atrophy	Mild
* Preputial Gland	Inflammation	Chronic, Mild
* Prostate	Inflammation	Chronic, Moderate
[ Inflammation TGLs = 4-7-1 ]		
* Salivary Glands	Schwannoma Malignant	Metastatic (Skin)
* Skin	Fibrous Histiocytoma	
	Keratoacanthoma	Multiple
	Schwannoma Malignant	
Note: MALIGNANT SCHWANNOMA IS PRESENT ON SLIDES 8 AND 21.		
[ Fibrous Histiocytoma TGLs = 7-23 ]		
[ Keratoacanthoma TGLs = 3-22,8-24,9-25 ]		
[ Schwannoma Malignant TGLs = 1-21 ]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Testes	Interstitial Cell	Adenoma

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 116

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112081

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 2-7 ]	Interstit Cell	Hyperplasia	Minimal
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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 117

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112082

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                   | * Epididymis                | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| Peripheral Nerve         | * Salivary Glands           | * Seminal Vesicle        | Spinal Cord                |
| * Stomach, Glandular     | * Thymus                    | * Trachea                | * Urinary Bladder          |

**MISSING**

- |             |                          |
|-------------|--------------------------|
| * Esophagus | * Lymph Node, Mandibular |
|-------------|--------------------------|

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |                   |                                     |                                   |                 |
|-------------------|-------------------------------------|-----------------------------------|-----------------|
| * Adrenal Cortex  |                                     | Accessory Adrenal Cortical Nodule |                 |
|                   |                                     | Adenoma                           |                 |
|                   |                                     | Degeneration                      | Fatty, Moderate |
|                   |                                     | Leukemia Mononuclear              |                 |
| * Adrenal Medulla |                                     | Pheochromocytoma Benign           |                 |
| * Bone Marrow     |                                     | Leukemia Mononuclear              |                 |
| * Brain           |                                     | Compression                       | Moderate        |
|                   | [ Compression TGLs = 10-1 ]         |                                   |                 |
| * Eye             |                                     | Cataract                          | Moderate        |
|                   | Retina                              | Degeneration                      | Marked          |
|                   | [ Cataract TGLs = 1-44 ]            |                                   |                 |
| * Heart           |                                     | Cardiomyopathy                    | Mild            |
| * Kidney          |                                     | Leukemia Mononuclear              |                 |
|                   |                                     | Nephropathy                       | Moderate        |
| * Liver           |                                     | Degeneration                      | Cystic, Mild    |
|                   | Bile Duct                           | Hyperplasia                       | Moderate        |
|                   |                                     | Leukemia Mononuclear              |                 |
|                   | [ Hyperplasia TGLs = 9-6 ]          |                                   |                 |
|                   | [ Leukemia Mononuclear TGLs = 9-6 ] |                                   |                 |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 117

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112082

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
	[ Leukemia Mononuclear	TGLs = 6-7 ]	
	[ Leukemia Mononuclear	TGLs = 8-22 ]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia	TGLs = 2-8,3-21 ]	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma	TGLs = 11-1 ]	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Mild
	Control	Hyperkeratosis	Minimal
Note: SKIN IS PRESENT ON SLIDE 21.			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		Necrosis	Moderate
	[ Fibrosis	TGLs = 5-23 ]	
	[ Leukemia Mononuclear	TGLs = 4-6 ]	
	[ Necrosis	TGLs = 5-23 ]	
* Stomach, Forestomach		Edema	Moderate
		Ulcer	Marked
	[ Edema	TGLs = 7-4 ]	
	[ Ulcer	TGLs = 7-4 ]	
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear  
**CONTRIBUTORY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma  
- Stomach, Forestomach Ulcer

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 118

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 659  
**HISTO:** 112083

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Seminal Vesicle        | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                                   |               |
|--------------------------|--|-----------------------------------|---------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |               |
| * Adrenal Medulla        |  | Hyperplasia                       | Minimal       |
| * Bone Marrow            |  | Leukemia Mononuclear              |               |
| * Brain                  |  | Compression                       | Marked        |
|                          | [ Compression TGLs = 8-1 ]                 |                                   |               |
| * Heart                  |  | Cardiomyopathy                    | Moderate      |
| * Kidney                 |  | Nephropathy                       | Moderate      |
| * Liver                  |  | Hepatodiaphragmatic Nodule        |               |
|                          |  | Leukemia Mononuclear              |               |
|                          | Centrilobular                              | Necrosis                          | Moderate      |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 5-22 ] |                                   |               |
| Lymph Node               | Mediastinal                                | Hemangiosarcoma                   |               |
|                          | [ Hemangiosarcoma TGLs = 6-3 ]             |                                   |               |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear              |               |
| * Mammary Gland          |  | Hyperplasia                       | Marked        |
| Mesentery                | Fat  | Necrosis                          | Mild          |
|                          | [ Necrosis TGLs = 3-21 ]                   |                                   |               |
| * Pituitary Gland        | Pars Distalis                              | Adenoma                           |               |
|                          | [ Adenoma TGLs = 9-1 ]                     |                                   |               |
| * Preputial Gland        |  | Inflammation                      | Chronic, Mild |
|                          | [ Inflammation TGLs = 1-8 ]                |                                   |               |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 118

TMT: 5

SEX: Male

DAY ON TEST: 659

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112083

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Skin	Sebaceous GI	Adenoma	
	[ Adenoma TGLs = 7-23 ]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate
	[ Ulcer TGLs = 10-4 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 2-7 ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
CONTRIBUTORY CAUSE OF DEATH - Lymph Node Mediastinal Hemangiosarcoma  
- Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 119

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112084

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Esophagus               | * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | Lymph Node                  | * Pancreas               | * Parathyroid Gland        |
| * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                             |                |                       |                      |
|-----------------------------|----------------|-----------------------|----------------------|
| * Brain                     |                | Compression           | Moderate             |
| [ Compression TGLs = 10-1 ] |                |                       |                      |
| * Epididymis                |                | Inflammation          | Chronic, Mild        |
| * Harderian Gland           |                | Inflammation          | Chronic, Mild        |
| * Heart                     |                | Cardiomyopathy        | Moderate             |
| * Kidney                    |                | Nephropathy           | Minimal              |
| [ Nephropathy TGLs = 7-5 ]  |                |                       |                      |
| * Liver                     | Bile Duct      | Basophilic Focus      |                      |
|                             |                | Hyperplasia           | Minimal              |
|                             |                | Infiltration Cellular | Mixed Cell, Moderate |
|                             |                | Leukemia Mononuclear  |                      |
|                             |                | Mixed Cell Focus      |                      |
| * Lung                      |                | Infiltration Cellular | Histiocyte, Minimal  |
| * Lymph Node, Mesenteric    |                | Hyperplasia           | Lymphoid, Mild       |
| [ Hyperplasia TGLs = 6-5 ]  |                |                       |                      |
| * Mammary Gland             |                | Hyperplasia           | Marked               |
| [ Hyperplasia TGLs = 1-21 ] |                |                       |                      |
| * Nose                      |                | Foreign Body          |                      |
|                             |                | Fungus                |                      |
|                             | Respirat Epith | Hyperplasia           | Moderate             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 119

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112084

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 9-1 ]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 3-7-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Note: SKIN, CONTROL - INSUFFICIENT TISSUE.		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	[ Adenoma TGLs = 2-7 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 120

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 575

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112085

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           |
| * Spleen                 | * Stomach, Forestomach     | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Thyroid Gland

**OBSERVATIONS**

- |  |                |                 |                    |
|--|----------------|-----------------|--------------------|
| * Bone Marrow                            |                | Hyperplasia     | Mild               |
| * Heart                                  |                | Cardiomyopathy  | Minimal            |
| * Kidney                                 |                | Nephropathy     | Minimal            |
| * Liver                                  | Bile Duct      | Hyperplasia     | Minimal            |
| Lymph Node                               |                |                 |                    |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                |                 |                    |
| * Nose                                   |                | Foreign Body    |                    |
|  |                | Fungus          |                    |
|  |                | Inflammation    | Chronic, Moderate  |
|  | Respirat Epith | Metaplasia      | Squamous, Moderate |
| * Prostate                               |                | Inflammation    | Chronic, Moderate  |
| * Skin                                   | Control        | Hyperkeratosis  | Minimal            |
|  | Control Epider | Hyperplasia     | Minimal            |
|  |                | Keratoacanthoma | Multiple           |
| [ Keratoacanthoma TGLs = 1-21,4-22 ]     |                |                 |                    |
| * Stomach, Glandular                     |                | Erosion         | Minimal            |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 120

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 575

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112085

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes

Bilateral, Interstit Cell

Adenoma

Minimal

Germinal Epith

Atrophy

[ Adenoma TGLs = 2-7 ]

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PRIMARY CAUSE OF DEATH

- UNCERTAIN

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 121

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112086

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Parathyroid Gland       | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |   |                     |
|--------------------------|--|---|---------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Moderate     |
| * Adrenal Medulla        |  | Pheochromocytoma Benign                           |                     |
| * Bone Marrow            |  | Leukemia Mononuclear                              |                     |
| * Heart                  |  | Cardiomyopathy                                    | Moderate            |
| * Islets, Pancreatic     |  | Carcinoma   |                     |
|                          | [ Carcinoma TGLs = 4-7 ]                 |   |                     |
| * Kidney                 |  | Nephropathy                                       | Marked              |
|                          | [ Nephropathy TGLs = 5-5 ]               |   |                     |
| * Liver                  |  | Basophilic Focus                                  |                     |
|                          | Bile Duct                                | Hyperplasia                                       | Minimal             |
|                          |  | Leukemia Mononuclear                              |                     |
|                          |  | Mixed Cell Focus                                  |                     |
|                          | [ Hyperplasia TGLs = 6-6 ]               |   |                     |
|                          | [ Leukemia Mononuclear TGLs = 6-6 ]      |   |                     |
| * Lung                   |  | Infiltration Cellular                             | Histiocyte, Minimal |
|                          |  | Inflammation                                      | Chronic, Minimal    |
| Lymph Node               |  |   |                     |
|                          | Note: LYMPH NODE, MEDIASTINAL - MISSING. |   |                     |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear                              |                     |
| * Mammary Gland          |  | Hyperplasia                                       | Minimal             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 121

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112086

**ORGAN AND ACCOUNTABLE SITE STATUS**

Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 22.			
	[ Mesothelioma Malignant	TGLs = 3-22 ]	
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[ Adenoma	TGLs = 7-1 ]	
* Skin		Fibroma	
	SOA	Hyperkeratosis	Minimal
	[ Fibroma	TGLs = 1-21 ]	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma	TGLs = 2-7 ]	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant  
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy  
 - Pituitary Gland Pars Distalis Adenoma  
 - Skin Fibroma  
 - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 122

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 554

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112087

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Mammary Gland             | * Parathyroid Gland      |
| * Prostate                 | * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testes                  | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |   |                                   |                     |
|----------------------|---|-----------------------------------|---------------------|
| * Adrenal Cortex     |   | Accessory Adrenal Cortical Nodule |                     |
| * Bone Marrow        |   | Hyperplasia                       | Moderate            |
| * Heart              |   | Cardiomyopathy                    | Moderate            |
| * Islets, Pancreatic |   | Adenoma                           |                     |
|                      |   | Hyperplasia                       | Mild                |
| * Kidney             |   | Nephropathy                       | Minimal             |
| * Liver              |   | Basophilic Focus                  |                     |
|                      |   | Fibrous Histiocytoma              |                     |
|                      |   | Leukemia Mononuclear              |                     |
|                      | [ Fibrous Histiocytoma TGLs = 2-6,3-22,4-23,5-6,6-24,8-25 ] |                                   |                     |
|                      | [ Leukemia Mononuclear TGLs = 7-6 ]                         |                                   |                     |
| * Lung               |   | Infiltration Cellular             | Histiocyte, Minimal |
| Lymph Node           |   |                                   |                     |
|                      | Note: LYMPH NODE, MEDIASTINAL - MISSING.                    |                                   |                     |
| * Nose               |   | Inflammation                      | Chronic, Minimal    |
| * Pancreas           |   | Atrophy                           | Minimal             |
| * Pituitary Gland    | Pars Distalis   | Hyperplasia                       | Focal, Mild         |
| * Preputial Gland    |   | Inflammation                      | Chronic, Mild       |
| * Skin               |   | Fibrous Histiocytoma              |                     |
|                      | SOA   | Hyperkeratosis                    | Minimal             |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 122

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 554

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112087

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Fibrous Histiocytoma TGLs = 1-21 ]  
\* Spleen

Hematopoietic Cell Proliferation

Mild

Leukemia Mononuclear

---

PRIMARY CAUSE OF DEATH - Skin Fibrous Histiocytoma

CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 123

TMT: 5  
 DOSE: 30 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 112088

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus              |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Lung                    | * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands        |
| * Seminal Vesicle         | * Spleen                    | * Stomach, Glandular     | * Trachea                |
| * Urinary Bladder         |                             |                          |                          |

**MISSING**

- |                            |                          |
|----------------------------|--------------------------|
| * Intestine Small, Jejunum | * Lymph Node, Mandibular |
|----------------------------|--------------------------|

**INSUFFICIENT TISSUE**

- \* Thymus

**OBSERVATIONS**

- |  |                         |                |
|--|-------------------------|----------------|
| * Adrenal Cortex                         | Degeneration            | Fatty, Marked  |
| * Adrenal Medulla                        | Pheochromocytoma Benign | Multiple       |
| * Brain                                  | Compression             | Mild           |
| [ Compression TGLs = 7-1 ]               |                         |                |
| * Heart                                  | Cardiomyopathy          | Moderate       |
| * Kidney                                 | Inflammation            | Chronic, Mild  |
|  | Nephropathy             | Moderate       |
| [ Inflammation TGLs = 4-5 ]              |                         |                |
| [ Nephropathy TGLs = 4-5 ]               |                         |                |
| * Liver                                  | Clear Cell Focus        |                |
| Bile Duct                                | Hyperplasia             | Minimal        |
| [ Clear Cell Focus TGLs = 8-23 ]         |                         |                |
| Lymph Node Pancreatic                    | Ectasia                 | Marked         |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                         |                |
| [ Ectasia TGLs = 3-7 ]                   |                         |                |
| * Lymph Node, Mesenteric                 | Hyperplasia             | Lymphoid, Mild |
| * Mammary Gland                          | Hyperplasia             | Marked         |
| [ Hyperplasia TGLs = 1-21,2-22 ]         |                         |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 123

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112088

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Moderate
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Stomach, Forestomach		Edema	Mild
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 124

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112089

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Mammary Gland             | * Parathyroid Gland      |
| * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- |                          |          |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

**OBSERVATIONS**

- |  |                              |                     |
|--|------------------------------|---------------------|
| * Adrenal Cortex                           | Degeneration                 | Fatty, Mild         |
|  | Hypertrophy                  | Focal, Minimal      |
| * Epididymis                               | Granuloma Sperm              | Moderate            |
| [ Granuloma Sperm TGLs = 2-25 ]            |                              |                     |
| * Heart                                    | Cardiomyopathy               | Moderate            |
| * Islets, Pancreatic                       | Carcinoma                    |                     |
| [ Carcinoma TGLs = 3-7 ]                   |                              |                     |
| * Kidney                                   | Nephropathy                  | Minimal             |
| * Liver                                    | Basophilic Focus             |                     |
|  | Clear Cell Focus             |                     |
|  | Hepatodiaphragmatic Nodule   |                     |
| [ Hepatodiaphragmatic Nodule TGLs = 8-24 ] |                              |                     |
| * Lung                                     | Alveolar/Bronchiolar Adenoma |                     |
|  | Infiltration Cellular        | Histiocyte, Minimal |
|  | Inflammation                 | Chronic, Minimal    |
| Lymph Node                                 |                              |                     |
| Note: LYMPH NODE, MEDIASTINAL - MISSING.   |                              |                     |
| * Nose                                     | Foreign Body                 |                     |
|  | Inflammation                 | Chronic, Minimal    |
| * Pancreas                                 | Atrophy                      | Moderate            |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 124

TMT: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112089

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 7-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin		Fibroma	
	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
[ Fibroma TGLs = 4-21,9-26 ]			
[ Hyperplasia TGLs = 5-22,6-23 ]			
[ Ulcer TGLs = 5-22,6-23 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLs = 1-7 ]			



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 125

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112090

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Mammary Gland          |
| * Nose                     | * Parathyroid Gland       | Peripheral Nerve            | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | Spinal Cord                 | * Spleen                 |
| * Stomach, Forestomach     | * Testes                  | * Thymus                    | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                             |                                   |                    |
|--------------------------|-----------------------------|-----------------------------------|--------------------|
| * Adrenal Cortex         |                             | Accessory Adrenal Cortical Nodule |                    |
| * Adrenal Medulla        |                             | Pheochromocytoma Benign           |                    |
| * Heart                  |                             | Cardiomyopathy                    | Moderate           |
| * Kidney                 |                             | Nephropathy                       | Minimal            |
| * Liver                  | Bile Duct                   | Hyperplasia                       | Minimal            |
| Lymph Node               | Mediastinal                 | Ectasia                           | Marked             |
|                          | Deep Cervical               | Ectasia                           | Moderate           |
|                          | Mediastinal                 | Hyperplasia                       | Lymphoid, Moderate |
|                          | Deep Cervical               | Hyperplasia                       | Lymphoid, Mild     |
|                          | [ Ectasia TGLs = 2-3 ]      |                                   |                    |
|                          | [ Ectasia TGLs = 3-22 ]     |                                   |                    |
|                          | [ Hyperplasia TGLs = 2-3 ]  |                                   |                    |
|                          | [ Hyperplasia TGLs = 3-22 ] |                                   |                    |
| * Lymph Node, Mesenteric |                             | Hyperplasia                       | Lymphoid, Mild     |
| * Pancreas               |                             | Atrophy                           | Mild               |
| * Pituitary Gland        | Pars Distalis               | Cyst                              |                    |
|                          | Pars Intermed               | Hyperplasia                       | Focal, Mild        |
| * Preputial Gland        |                             | Inflammation                      | Chronic, Mild      |
| * Skin                   | SOA                         | Hyperkeratosis                    | Minimal            |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 125

TMT: 5

SEX: Male

DAY ON TEST: 667

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112090

ORGAN AND ACCOUNTABLE SITE STATUS

Epidermis, SOA  
Epidermis

Hyperplasia  
Hyperplasia  
Inflammation  
Keratoacanthoma  
Ulcer

Minimal  
Mild  
Suppurative, Marked  
Mild

[ Inflammation TGLs = 4-23 ]

[ Keratoacanthoma TGLs = 1-21 ]

\* Stomach, Glandular

\* Thyroid Gland

Zymbal's Gland

[ Carcinoma TGLs = 5-24 ]

C Cell

Edema  
Hyperplasia  
Carcinoma

Mild  
Minimal

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 126

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

INSUFFICIENT TISSUE

\* Esophagus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
		Ulcer	Marked

[ Hyperplasia TGLs = 2-21 ]

[ Ulcer TGLs = 2-21 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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**ANIMAL NUM:** 126

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112091

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Mild
[ Adenoma TGLs = 1-7 ]			
* Thyroid Gland	C Cell	Adenoma	

---

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

**ANIMAL NUM:** 127

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 685

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112092

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Thyroid Gland

**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	
	Leukemia Mononuclear	
* Adrenal Medulla	Leukemia Mononuclear	
	Pheochromocytoma Benign	Multiple
* Bone Marrow	Leukemia Mononuclear	
* Brain	Carcinoma	Metastatic (Pituitary Gland)
	[ Carcinoma TGLs = 9-1 ]	
* Heart	Cardiomyopathy	Moderate
* Islets, Pancreatic	Adenoma	
	[ Adenoma TGLs = 5-22 ]	
* Kidney	Leukemia Mononuclear	
	Nephropathy	Mild
* Liver	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 7-6 ]	
* Lung	Infiltration Cellular	Histiocyte, Moderate
	Leukemia Mononuclear	
	[ Infiltration Cellular TGLs = 11-2 ]	
Lymph Node		
Note: LYMPH NODE, MEDIASTINAL - MISSING.		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 127

TMT: 5

SEX: Male

DAY ON TEST: 685

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 112092

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
	[ Fibroadenoma TGLs = 13-25 ]		
	[ Hyperplasia TGLs = 1-21,2-8 ]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Carcinoma	
	[ Carcinoma TGLs = 10-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 4-7-1 ]		
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 8-23 ]		
	[ Ulcer TGLs = 8-23 ]		
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-24 ]		
* Stomach, Glandular		Erosion	Moderate
	[ Erosion TGLs = 12-4 ]		
* Testes	Interstit Cell	Adenoma	
	[ Adenoma TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 128

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 534

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112093

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Minimal
* Brain		Fungus	
	Perivascular	Inflammation	Pyogranulomat, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hyperplasia	Focal, Mild
	[ Hepatodiaphragmatic Nodule TGLs = 2-22 ]		
	[ Hyperplasia TGLs = 1-21 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
		Cyst	
Note: PANCREATIC CYST IS ON SLIDE 4.			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 128

TMT: 5

SEX: Male

DAY ON TEST: 534

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112093

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 3-1 ]

\* Preputial Gland

\* Skin

Epidermis

Inflammation

Chronic, Mild

Hyperplasia

Moderate

Ulcer

Moderate

[ Hyperplasia TGLs = 4-23 ]

[ Ulcer TGLs = 4-23 ]

\* Testes

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Brain Perivascular Inflammation



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 129

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 630  
**HISTO:** 112094

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Nose                     | * Parathyroid Gland       | * Preputial Gland           | * Salivary Glands        |
| * Seminal Vesicle          | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |   |                    |                   |
|-------------------|---|--------------------|-------------------|
| * Adrenal Medulla |   | Hyperplasia        | Minimal           |
| * Brain           |   | Compression        | Moderate          |
|                   | [ Compression TGLs = 5-1 ]  |                    |                   |
| * Heart           |   | Cardiomyopathy     | Moderate          |
| * Kidney          |   | Nephropathy        | Moderate          |
| * Liver           |   | Eosinophilic Focus |                   |
|                   | Note: SECTION OF NORMAL-APPEARING LUNG ON SLIDE 22 INSTEAD OF LIVER, AS RECORDED ON IANR. |                    |                   |
|                   | [ Eosinophilic Focus TGLs = 6-21 ]  |                    |                   |
|                   | Lymph Node  |                    |                   |
|                   | Note: LYMPH NODE, MEDIASTINAL - MISSING.  |                    |                   |
| * Mammary Gland   |   | Hyperplasia        | Moderate          |
|                   | [ Hyperplasia TGLs = 1-8 ]  |                    |                   |
| * Pancreas        |   | Atrophy            | Moderate          |
| * Pituitary Gland | Pars Distalis   | Adenoma            |                   |
|                   | [ Adenoma TGLs = 4-1 ]  |                    |                   |
| * Prostate        |   | Inflammation       | Chronic, Moderate |
|                   | [ Inflammation TGLs = 2-7-1 ]   |                    |                   |
| * Skin            | SOA   | Hyperkeratosis     | Minimal           |
|                   | Epidermis, SOA  | Hyperplasia        | Minimal           |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 129

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 630

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112094

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 130

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 694

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112095

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Preputial Gland           | * Salivary Glands        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |

**MISSING**

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

**OBSERVATIONS**

- |                          |                              |                                   |                     |
|--------------------------|------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex         |                              | Accessory Adrenal Cortical Nodule |                     |
| * Adrenal Medulla        |                              | Hyperplasia                       | Minimal             |
|                          |                              | Pheochromocytoma Benign           |                     |
| * Brain                  |                              | Compression                       | Mild                |
|                          | [ Compression TGLs = 14-1 ]  |                                   |                     |
| * Heart                  |                              | Cardiomyopathy                    | Moderate            |
| * Kidney                 |                              | Nephropathy                       | Marked              |
|                          | [ Nephropathy TGLs = 9-5 ]   |                                   |                     |
| * Liver                  |                              | Basophilic Focus                  |                     |
|                          |                              | Eosinophilic Focus                |                     |
| * Lung                   |                              | Bile Duct                         |                     |
|                          |                              | Hyperplasia                       | Minimal             |
|                          |                              | Foreign Body                      |                     |
|                          |                              | Infiltration Cellular             | Histiocyte, Mild    |
|                          |                              | Inflammation                      | Granulomatous, Mild |
|                          |                              | Metaplasia                        | Osseous, Minimal    |
| Lymph Node               |                              | Hemorrhage                        | Marked              |
|                          | Mediastinal                  | Hyperplasia                       | Lymphoid, Moderate  |
|                          | Deep Cervical                | Pigmentation                      | Moderate            |
|                          | Mediastinal                  |                                   |                     |
|                          | [ Hemorrhage TGLs = 10-3 ]   |                                   |                     |
|                          | [ Hyperplasia TGLs = 13-24 ] |                                   |                     |
|                          | [ Pigmentation TGLs = 10-3 ] |                                   |                     |
| * Lymph Node, Mesenteric |                              | Ectasia                           | Moderate            |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 130

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 694

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112095

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Mammary Gland [ Hyperplasia TGLs = 1-21,2-22,3-23,11-8 ]		Hyperplasia	Marked
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland [ Adenoma TGLs = 15-1 ]	Pars Distalis	Adenoma	
* Prostate [ Inflammation TGLs = 7-7-1,8-7-1 ]		Inflammation	Chronic, Marked
* Seminal Vesicle [ Inflammation TGLs = 6-7 ]		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes [ Adenoma TGLs = 4-7 ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [ Carcinoma TGLs = 12-3 ]	Follicular Cel	Carcinoma	
Urethra [ Angiectasis TGLs = 17-26 ]		Angiectasis	Moderate

PRIMARY CAUSE OF DEATH - Thyroid Gland Follicular Cel Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy  
 - Pituitary Gland Pars Distalis Adenoma  
 - Prostate Inflammation

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 131

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112096

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Marked
	[ Thrombosis TGLs = 5-12 ]		
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular Hepatocyte	Necrosis Vacuolization Cytoplasmic	Marked Moderate
	[ Necrosis TGLs = 3-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 3-6 ]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 9-22 ]		
Lymph Node	Mediastinal Mediastinal	Ectasia Hemorrhage	Mild Mild
	[ Ectasia TGLs = 4-3 ]		
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Respirat Epith Pars Distalis	Metaplasia Adenoma	Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 131

TMT: 5

SEX: Male

DAY ON TEST: 632

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112096

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 8-1 ]

\* Prostate

Inflammation

Chronic, Minimal

\* Skin

Epidermis

Hyperplasia

Moderate

Ulcer

Moderate

[ Hyperplasia TGLs = 6-21 ]

[ Ulcer TGLs = 6-21 ]

\* Spleen

Pigmentation

Moderate

\* Stomach, Forestomach

Edema

Moderate

Erosion

Mild

Epithelium

Hyperplasia

Moderate

\* Testes

Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Heart Thrombosis

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 132

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112097

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Esophagus	* Lymph Node, Mandibular	* Mammary Gland	* Preputial Gland
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**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate		Inflammation	Chronic, Minimal
	[ Inflammation TGLs = 3-7-1 ]		
* Skin		Fibroma	
	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 132

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112097

**ORGAN AND ACCOUNTABLE SITE STATUS**

Inflammation

Chronic, Moderate

[ Fibroma TGLs = 1-21,5-23 ]

[ Hyperplasia TGLs = 4-22 ]

[ Inflammation TGLs = 4-22 ]

\* Spleen

\* Testes

Hematopoietic Cell Proliferation

Mild

Bilateral, Interstit Cell

Adenoma

Germinal Epith

Atrophy

Moderate

[ Adenoma TGLs = 2-7 ]



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 133

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112098

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Trachea                | * Urinary Bladder          |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                  |                              |                           |                   |
|------------------|------------------------------|---------------------------|-------------------|
| * Adrenal Cortex |                              | Degeneration              | Fatty, Mild       |
| * Heart          |                              | Cardiomyopathy            | Moderate          |
| * Kidney         | Renal Tubule                 | Carcinoma                 |                   |
|                  |                              | Cyst                      |                   |
|                  |                              | Inflammation              | Chronic, Moderate |
|                  |                              | Nephropathy               | Moderate          |
|                  | [ Cyst TGLs = 3-22 ]         |                           |                   |
|                  | [ Inflammation TGLs = 2-5 ]  |                           |                   |
|                  | [ Nephropathy TGLs = 2-5 ]   |                           |                   |
| * Liver          |                              | Basophilic Focus          |                   |
|                  |                              | Clear Cell Focus          |                   |
|                  |                              | Fibrosis                  | Mild              |
|                  |                              | Mixed Cell Focus          |                   |
|                  | Hepatocyte                   | Vacuolization Cytoplasmic | Moderate          |
|                  | [ Fibrosis TGLs = 4-21,5-6 ] |                           |                   |
| Lymph Node       | Pancreatic                   | Ectasia                   | Moderate          |
|                  | Mediastinal                  | Hemorrhage                | Moderate          |
|                  | Pancreatic                   | Hemorrhage                | Moderate          |
|                  | Mediastinal                  | Pigmentation              | Mild              |
|                  | Pancreatic                   | Pigmentation              | Mild              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 133

TMT: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112098

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Ectasia TGLs = 1-7 ]		
	[ Hemorrhage TGLs = 6-3 ]		
	[ Hemorrhage TGLs = 1-7 ]		
	[ Pigmentation TGLs = 6-3 ]		
	[ Pigmentation TGLs = 1-7 ]		
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[ Adenoma TGLs = 7-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Edema	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 8-7 ]		
* Thymus		Thymoma Benign	
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 134

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112099

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Parathyroid Gland         | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                                   |                     |
|--------------------------|--|-----------------------------------|---------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |                     |
| * Brain                  |  | Compression                       | Marked              |
|                          | [ Compression TGLs = 3-1 ]               |                                   |                     |
| * Epididymis             |  | Inflammation                      | Chronic, Mild       |
| * Heart                  |  | Cardiomyopathy                    | Moderate            |
| * Kidney                 |  | Nephropathy                       | Mild                |
| * Liver                  |  | Basophilic Focus                  |                     |
|                          |  | Clear Cell Focus                  |                     |
|                          | Bile Duct                                | Hyperplasia                       | Minimal             |
| * Lung                   |  | Hemorrhage                        | Minimal             |
|                          |  | Infiltration Cellular             | Histiocyte, Minimal |
| Lymph Node               |  |                                   |                     |
|                          | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                   |                     |
| * Lymph Node, Mesenteric |  | Hemorrhage                        | Mild                |
| * Mammary Gland          |  | Hyperplasia                       | Moderate            |
|                          | [ Hyperplasia TGLs = 1-8 ]               |                                   |                     |
| * Nose                   |  | Foreign Body                      |                     |
|                          | Respirat Epith                           | Hyperplasia                       | Minimal             |
|                          |  | Inflammation                      | Chronic, Minimal    |
|                          | Respirat Epith                           | Metaplasia                        | Squamous, Minimal   |
| * Pancreas               |  | Atrophy                           | Minimal             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 134

TMT: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112099

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 4-1 ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Testes [ Adenoma TGLs = 2-7 ]	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 135

TMT: 5  
 DOSE: 30 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 362  
 HISTO: 112100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis             |
| * Esophagus                 | * Eye                    | * Harderian Gland          | * Intestine Large, Cecum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Kidney                    | * Liver                  | * Lung                     | * Mammary Gland          |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland        |
| * Preputial Gland           | * Salivary Glands        | * Stomach, Forestomach     | * Testes                 |
| * Thymus                    | * Trachea                | * Urinary Bladder          |                          |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |  |                                 |                                   |                   |
|--|---------------------------------|-----------------------------------|-------------------|
| * Adrenal Cortex                         |                                 | Accessory Adrenal Cortical Nodule |                   |
| * Bone Marrow                            |                                 | Hyperplasia                       | Moderate          |
| * Heart                                  |                                 | Cardiomyopathy                    | Mild              |
| * Intestine Large, Colon                 | Epithelium                      | Hyperplasia                       | Moderate          |
|  | [ Hyperplasia TGLs = 2-4,3-21 ] | Inflammation                      | Chronic, Mild     |
| * Intestine Large, Rectum                | Epithelium                      | Hyperplasia                       | Mild              |
| Lymph Node                               |                                 |                                   |                   |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                 |                                   |                   |
| * Lymph Node, Mesenteric                 |                                 | Ectasia                           | Mild              |
|  |                                 | Hyperplasia                       | Lymphoid, Mild    |
| * Prostate                               |                                 | Inflammation                      | Chronic, Moderate |
| * Seminal Vesicle                        |                                 | Inflammation                      | Chronic, Moderate |
| * Skin                                   | SOA                             | Hyperkeratosis                    | Mild              |
| * Spleen                                 | Lymph Follic                    | Atrophy                           | Mild              |
|  |                                 | Pigmentation                      | Moderate          |
| * Stomach, Glandular                     |                                 | Ulcer                             | Mild              |
| * Thyroid Gland                          | C Cell                          | Hyperplasia                       | Minimal           |
|  |                                 | Ultimobranchial Cyst              | Moderate          |

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 136

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 467

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112101

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                           |                             |                      |
|--------------------------|---------------------------|-----------------------------|----------------------|
| * Adrenal Cortex         | * Adrenal Medulla         | * Bone                      | * Bone Marrow        |
| * Epididymis             | * Esophagus               | * Eye                       | * Harderian Gland    |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic |
| * Mammary Gland          | * Pancreas                | * Parathyroid Gland         | * Preputial Gland    |
| * Salivary Glands        | * Seminal Vesicle         | * Stomach, Glandular        | * Testes             |
| * Thymus                 | * Trachea                 | * Urinary Bladder           |                      |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- |                          |                          |                            |                 |
|--------------------------|--------------------------|----------------------------|-----------------|
| * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland |
|--------------------------|--------------------------|----------------------------|-----------------|

**OBSERVATIONS**

- |  |  |                            |                     |
|--|--|----------------------------|---------------------|
| * Brain                                  |  | Compression                | Moderate            |
|  | [ Compression TGLs = 2-1 ]                 |                            |                     |
| * Heart                                  |  | Cardiomyopathy             | Moderate            |
| * Kidney                                 |  | Nephropathy                | Moderate            |
| * Liver                                  |  | Hepatodiaphragmatic Nodule |                     |
|  | Hepatocyte                                 | Vacuolization Cytoplasmic  | Mild                |
|  | [ Hepatodiaphragmatic Nodule TGLs = 1-21 ] |                            |                     |
| * Lung                                   | Alveolar Epith                             | Hyperplasia                | Minimal             |
|  |  | Infiltration Cellular      | Histiocyte, Minimal |
|  |  | Inflammation               | Chronic, Mild       |
| Lymph Node                               |  |                            |                     |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |  |                            |                     |
| * Lymph Node, Mesenteric                 |  | Hyperplasia                | Lymphoid, Mild      |
| * Nose                                   |  | Inflammation               | Chronic, Minimal    |
| * Pituitary Gland                        | Pars Distalis                              | Adenoma                    |                     |
|  | [ Adenoma TGLs = 3-1 ]                     |                            |                     |
| * Prostate                               |  | Inflammation               | Chronic, Moderate   |
| * Skin                                   | SOA  | Hyperkeratosis             | Mild                |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 136

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 467

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112101

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Hematopoietic Cell Proliferation	Moderate
	Pigmentation	Moderate
* Stomach, Forestomach	Ulcer	Marked
[ Ulcer TGLs = 4-4 ]		

---

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

**CONTRIBUTORY CAUSE OF DEATH** - Stomach, Forestomach Ulcer

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 137

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 642

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112102

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus              |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Parathyroid Gland      |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                   |
| * Stomach, Forestomach    | * Testes                    | * Trachea                | * Urinary Bladder        |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- |                            |                      |            |                 |
|----------------------------|----------------------|------------|-----------------|
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Pancreas | * Thyroid Gland |
|----------------------------|----------------------|------------|-----------------|

**OBSERVATIONS**

- |                          |             |  |                   |
|--------------------------|-------------|--|-------------------|
| * Adrenal Cortex         |             | Accessory Adrenal Cortical Nodule        |                   |
| * Adrenal Medulla        |             | Leukemia Mononuclear                     |                   |
| * Bone Marrow            |             | Leukemia Mononuclear                     |                   |
| * Heart                  |             | Cardiomyopathy                           | Moderate          |
| * Kidney                 |             | Leukemia Mononuclear                     |                   |
| * Liver                  | Bile Duct   | Hyperplasia                              | Mild              |
|                          |             | Leukemia Mononuclear                     |                   |
|                          |             | [ Hyperplasia TGLs = 5-6 ]               |                   |
|                          |             | [ Leukemia Mononuclear TGLs = 5-6 ]      |                   |
| * Lung                   |             | Leukemia Mononuclear                     |                   |
| Lymph Node               | Mediastinal | Leukemia Mononuclear                     |                   |
|                          |             | [ Leukemia Mononuclear TGLs = 6-22 ]     |                   |
| * Lymph Node, Mesenteric |             | Leukemia Mononuclear                     |                   |
|                          |             | [ Leukemia Mononuclear TGLs = 3-21,4-5 ] |                   |
| * Mammary Gland          |             | Hyperplasia                              | Mild              |
|                          |             | [ Hyperplasia TGLs = 1-8 ]               |                   |
| * Nose                   |             | Foreign Body                             |                   |
|                          |             | Fungus                                   |                   |
|                          |             | Inflammation                             | Chronic, Moderate |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 137

TMT: 5

SEX: Male

DAY ON TEST: 642

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 112102

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Respirat Epith	Metaplasia	Squamous, Moderate
Note: ENTIRE PITUITARY GLAND HAS EXTENSIVE NECROSIS AND HEMORRHAGE WHICH ARE CONSIDERED SECONDARY TO MONONUCLEAR LEUKEMIA.			
	[ Leukemia Mononuclear TGLs = 7-1 ]	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6 ]		
* Stomach, Glandular		Erosion	Moderate
	[ Erosion TGLs = 8-4 ]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 138

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Nose	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Mild
	[ Compression TGLs = 6-1 ]		
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		
* Lymph Node, Mesenteric		Ectasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 138

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112103

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	[ Inflammation TGLs = 2-7-1 ]		Fibroma	
		SOA	Hyperkeratosis	Mild
* Spleen	[ Fibroma TGLs = 1-21 ]			
* Testes		Interstit Cell	Hematopoietic Cell Proliferation	Minimal
	[ Adenoma TGLs = 7-7 ]		Adenoma	
* Thyroid Gland		C Cell	Adenoma	

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 139

TMT: 5

SEX: Male

DAY ON TEST: 590

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 112104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lung	* Lymph Node, Mesenteric	* Nose	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

AUTO PRECLUDES DIAG.

\* Thyroid Gland

OBSERVATIONS

* Brain		Compression	Moderate
[ Compression TGLs = 3-1 ]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLs = 1-8 ]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 2-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLs = 4-4 ]			

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 139

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 590

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112104

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Ulcer TGLs = 4-4 ]

---

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 140

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 690  
**HISTO:** 112105

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Eye	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Glomerulosclerosis	Moderate
		Nephropathy	Mild
	[ Glomerulosclerosis TGLs = 7-5 ]		
	[ Nephropathy TGLs = 7-5 ]		
* Liver	Bile Duct	Hyperplasia	Moderate
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
	[ Hyperplasia TGLs = 10-6 ]		
	[ Leukemia Mononuclear TGLs = 10-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[ Infiltration Cellular TGLs = 11-2 ]		
	[ Leukemia Mononuclear TGLs = 11-2 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 140

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 690

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112105

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 6-5,9-22 ]		
* Pancreas		Atrophy	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal
		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[ Hematopoietic Cell Proliferation TGLs = 4-6,5-6 ]		
	[ Leukemia Mononuclear TGLs = 4-6,5-6 ]		
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
	[ Ulcer TGLs = 12-4 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
	[ Adenoma TGLs = 3-7 ]		
Tongue	Epithelium	Hyperplasia	Minimal
	[ Hyperplasia TGLs = 13-23 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 141

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112106

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Mammary Gland          | * Parathyroid Gland        | * Preputial Gland         |
| * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |   |                            |                         |                    |
|---|----------------------------|-------------------------|--------------------|
| * Adrenal Cortex  |                            | Degeneration            | Fatty, Minimal     |
| * Adrenal Medulla   |                            | Pheochromocytoma Benign | Multiple           |
| Note: THE PHEOCHROMOCYTOMA IN ONE OF THE ADRENAL GLANDS IS SMALL. |                            |                         |                    |
| * Bone Marrow   |                            | Leukemia Mononuclear    |                    |
| * Brain   |                            | Compression             | Mild               |
|   | [ Compression TGLs = 5-1 ] |                         |                    |
| * Heart   |                            | Cardiomyopathy          | Moderate           |
| * Kidney  |                            | Inflammation            | Chronic, Mild      |
|   |                            | Nephropathy             | Moderate           |
| * Liver   |                            | Basophilic Focus        |                    |
|   |                            | Infiltration Cellular   | Mixed Cell, Mild   |
|   |                            | Leukemia Mononuclear    |                    |
| Lymph Node  | Mediastinal                | Ectasia                 | Moderate           |
|   | Mediastinal                | Hyperplasia             | Lymphoid, Moderate |
|   | [ Ectasia TGLs = 2-3 ]     |                         |                    |
|   | [ Hyperplasia TGLs = 2-3 ] |                         |                    |
| * Lymph Node, Mesenteric  |                            | Leukemia Mononuclear    |                    |
| * Nose  |                            | Foreign Body            |                    |
|   |                            | Fungus                  |                    |
|   | Respirat Epith             | Hyperplasia             | Moderate           |
|   |                            | Inflammation            | Chronic, Moderate  |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 141

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112106

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas	Respirat Epith	Metaplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
[ Adenoma TGLs = 4-1 ]		Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Mild
[ Hyperplasia TGLs = 3-22 ]		Ulcer	Marked
[ Ulcer TGLs = 3-22 ]			
* Spleen		Fibrosis	Moderate
[ Fibrosis TGLs = 1-21 ]		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Cyst	
	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 142

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 626

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112107

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                          |                           |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Medulla        | * Bone                     | * Esophagus              | * Harderian Gland         |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Liver                   |
| * Lung                   | * Lymph Node, Mesenteric   | * Nose                   | * Parathyroid Gland       |
| * Salivary Glands        | * Seminal Vesicle          | * Stomach, Glandular     | * Trachea                 |
| * Urinary Bladder        |                            |                          |                           |

**MISSING**

- |                          |          |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

**OBSERVATIONS**

- |                             |               |                                   |                    |
|-----------------------------|---------------|-----------------------------------|--------------------|
| * Adrenal Cortex            |               | Accessory Adrenal Cortical Nodule |                    |
|                             |               | Degeneration                      | Fatty, Mild        |
| * Bone Marrow               |               | Hyperplasia                       | Mild               |
| * Brain                     |               | Compression                       | Moderate           |
| * Epididymis                |               | Inflammation                      | Chronic, Mild      |
| * Eye                       | Cornea        | Hyperplasia                       | Mild               |
|                             |               | Inflammation                      | Chronic, Moderate  |
| * Intestine Small, Duodenum | Epithelium    | Hyperplasia                       | Mild               |
| * Kidney                    |               | Nephropathy                       | Mild               |
| Lymph Node                  | Mediastinal   | Hyperplasia                       | Lymphoid, Moderate |
|                             |               | [ Hyperplasia TGLs = 3-3 ]        |                    |
| * Mammary Gland             |               | Hyperplasia                       | Marked             |
|                             |               | [ Hyperplasia TGLs = 1-8 ]        |                    |
| * Pancreas                  |               | Atrophy                           | Mild               |
|                             |               | Cyst                              |                    |
| * Pituitary Gland           | Pars Distalis | Adenoma                           |                    |
|                             |               | [ Adenoma TGLs = 5-1 ]            |                    |
| * Preputial Gland           |               | Inflammation                      | Chronic, Mild      |
| * Prostate                  |               | Inflammation                      | Chronic, Mild      |
| * Skin                      | SOA           | Hyperkeratosis                    | Mild               |
|                             |               | Keratoacanthoma                   |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 142

TMT: 5

SEX: Male

DAY ON TEST: 626

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112107

ORGAN AND ACCOUNTABLE SITE STATUS

[ Keratoacanthoma TGLs = 10-22 ]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Carcinoma	

[ Carcinoma TGLs = 4-21,4-21-1 ]

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 143

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

INSUFFICIENT TISSUE

\* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[ Hepatodiaphragmatic Nodule TGLs = 5-24 ]		
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 2-22 ]		
Mesentery	Fat	Necrosis	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 143

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112108

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 4-23 ]			
* Pancreas		Atrophy	Moderate
		Cyst	
* Skin	Epidermis	Hyperplasia	Marked
		Keratoacanthoma	
		Ulcer	Moderate
[ Hyperplasia TGLs = 6-25 ]			
[ Keratoacanthoma TGLs = 1-21 ]			
[ Ulcer TGLs = 6-25 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
[ Adenoma TGLs = 3-7 ]			

Animal Note: LEUKEMIA MONONUCLEAR IS IN AN EARLY STAGE.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 144

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112109

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mandibular	* Salivary Glands
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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[ Hepatodiaphragmatic Nodule TGLs = 2-22 ]		
* Mammary Gland		Hyperplasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Minimal
* Saliv Glands			
Note: SALIVARY GLAND IS OBSCURED BY SKIN MALIGNANT SCHWANNOMA.			
* Skin		Fibroma	
		Schwannoma Malignant	
	[ Fibroma TGLs = 3-23 ]		
	[ Schwannoma Malignant TGLs = 1-21,1-21-1 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 144

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112109

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 4-6 ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH** - Skin Schwannoma Malignant

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 145

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112110

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Pancreas                  | * Parathyroid Gland      |
| * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Trachea                   | * Urinary Bladder        |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                                 |                           |                     |
|----------------------|---------------------------------|---------------------------|---------------------|
| * Adrenal Cortex     |                                 | Hypertrophy               | Focal, Minimal      |
| * Brain              |                                 | Compression               | Marked              |
|                      | [ Compression TGLs = 8-1 ]      |                           |                     |
| * Heart              |                                 | Cardiomyopathy            | Moderate            |
| * Islets, Pancreatic |                                 | Adenoma                   |                     |
| * Kidney             |                                 | Inflammation              | Chronic, Mild       |
|                      |                                 | Nephropathy               | Moderate            |
| * Liver              |                                 | Basophilic Focus          |                     |
|                      |                                 | Infiltration Cellular     | Mixed Cell, Minimal |
|                      | Hepatocyte                      | Vacuolization Cytoplasmic | Moderate            |
| * Lung               |                                 | Infiltration Cellular     | Histiocyte, Minimal |
| * Mammary Gland      |                                 | Hyperplasia               | Marked              |
|                      | [ Hyperplasia TGLs = 1-8,2-21 ] |                           |                     |
| * Nose               |                                 | Foreign Body              |                     |
|                      | Respirat Epith                  | Hyperplasia               | Minimal             |
|                      |                                 | Inflammation              | Chronic, Minimal    |
| * Pituitary Gland    |                                 | Adenoma                   |                     |
|                      | Pars Distalis                   |                           |                     |
|                      | [ Adenoma TGLs = 7-1 ]          |                           |                     |
| * Prostate           |                                 | Inflammation              | Chronic, Moderate   |
|                      | [ Inflammation TGLs = 5-7-1 ]   |                           |                     |
| * Skin               | SOA                             | Hyperkeratosis            | Mild                |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 145

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112110

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 4-7 ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue		Squamous Cell Carcinoma	
	[ Squamous Cell Carcinoma TGLs = 6-22 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 146

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112111

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Nose                   |
| * Parathyroid Gland        | * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        |
| * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                             |                                   |                     |
|--------------------------|-----------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex         |                             | Accessory Adrenal Cortical Nodule |                     |
|                          |                             | Hypertrophy                       | Focal, Mild         |
| * Adrenal Medulla        |                             | Hyperplasia                       | Minimal             |
|                          |                             | Pheochromocytoma Benign           |                     |
| * Brain                  |                             | Compression                       | Mild                |
|                          |                             | Hemorrhage                        | Mild                |
|                          | [ Compression TGLs = 4-1 ]  |                                   |                     |
| * Kidney                 |                             | Inflammation                      | Chronic, Mild       |
|                          |                             | Nephropathy                       | Moderate            |
| * Lung                   |                             | Infiltration Cellular             | Histiocyte, Minimal |
| Lymph Node               | Mediastinal                 | Hemorrhage                        | Minimal             |
|                          | Mediastinal                 | Hyperplasia                       | Lymphoid, Mild      |
|                          | Mediastinal                 | Pigmentation                      | Moderate            |
|                          | [ Hemorrhage TGLs = 2-3 ]   |                                   |                     |
|                          | [ Hyperplasia TGLs = 2-3 ]  |                                   |                     |
|                          | [ Pigmentation TGLs = 2-3 ] |                                   |                     |
| * Lymph Node, Mesenteric |                             | Hyperplasia                       | Lymphoid, Mild      |
| * Mammary Gland          |                             | Hyperplasia                       | Marked              |
|                          | [ Hyperplasia TGLs = 1-8 ]  |                                   |                     |
| Mesentery                | Fat                         | Necrosis                          | Moderate            |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 146

TMT: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112111

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 6-22 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 5-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Moderate
[ Hyperplasia TGLs = 3-21 ]			
[ Ulcer TGLs = 3-21 ]			
* Testes	Interstit Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 147

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 554

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112112

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Mammary Gland	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Salivary Glands	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone		Osteosarcoma	
Note: OSTEOSARCOMA IS PRESENT ON SLIDE 9-2 IN VERTEBRAL SECTION (TAKEN FROM WET TISSUE AFTER OBSERVING OSTEOSARCOMA METASTASIS IN LUNG).			
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Dilatation	Moderate
		Hydronephrosis	Mild
	Papilla	Necrosis	Moderate
		Nephropathy	Mild
	[ Hydronephrosis TGLs = 3-5 ]		
* Lung		Osteosarcoma	Metastatic (Bone)
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose		Foreign Body	
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Prostate		Inflammation	Chronic, Marked
* Seminal Vesicle		Inflammation	Moderate
	[ Inflammation TGLs = 2-7 ]		
Skeletal Muscle		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 147

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 554

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112112

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Hemorrhage	Marked
		Inflammation	Suppurative, Moderate

[ Hemorrhage TGLs = 6-21 ]

**PRIMARY CAUSE OF DEATH** - Bone Osteosarcoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 148

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 644  
**HISTO:** 112113

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                          |                           |                             |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla        | * Bone                    | * Bone Marrow               |
| * Epididymis             | * Esophagus              | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Lung                    | * Lymph Node, Mesenteric    |
| * Parathyroid Gland      | * Salivary Glands        | * Seminal Vesicle         | * Stomach, Glandular        |
| * Thymus                 | * Trachea                | * Urinary Bladder         |                             |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Jejunum
- \* Thyroid Gland

**OBSERVATIONS**

- |                   |  |                |                  |
|-------------------|--|----------------|------------------|
| * Brain           |  | Compression    | Moderate         |
|                   | [ Compression TGLs = 5-1 ]                             |                |                  |
| * Heart           |  | Cardiomyopathy | Mild             |
| * Kidney          |  | Nephropathy    | Mild             |
| * Liver           | Bile Duct  | Hyperplasia    | Mild             |
| Lymph Node        |  |                |                  |
|                   | Note: LYMPH NODE, MEDIASTINAL - MISSING.               |                |                  |
| * Mammary Gland   |  | Hyperplasia    | Marked           |
|                   | Note: MAMMARY GLAND HYPERPLASIA IS ON SLIDES 8 AND 21. |                |                  |
|                   | [ Hyperplasia TGLs = 1-21 ]                            |                |                  |
| * Nose            |  | Foreign Body   |                  |
|                   | Respirat Epith   | Hyperplasia    | Mild             |
|                   |  | Inflammation   | Chronic, Minimal |
| * Pancreas        |  | Atrophy        | Moderate         |
| * Pituitary Gland | Pars Distalis  | Adenoma        |                  |
|                   | [ Adenoma TGLs = 6-1 ]                                 |                |                  |
| * Preputial Gland |  | Inflammation   | Chronic, Mild    |
| * Prostate        |  | Inflammation   | Chronic, Mild    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 148

TMT: 5

SEX: Male

DAY ON TEST: 644

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 112113

ORGAN AND ACCOUNTABLE SITE STATUS

[ Inflammation TGLs = 3-7-1 ]

* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Mild
		Ulcer	Marked

[ Ulcer TGLs = 4-4 ]

* Testes	Interstit Cell	Adenoma	
----------	----------------	---------	--

[ Adenoma TGLs = 2-7 ]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 149

TMT: 5  
DOSE: 30 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 724  
HISTO: 112114

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Moderate
* Adrenal Medulla		Leukemia Mononuclear Hyperplasia Pheochromocytoma Malignant	Moderate
	[ Pheochromocytoma Malignant TGLs = 8-10 ]		
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear Nephropathy	Moderate
	[ Leukemia Mononuclear TGLs = 14-5 ]		
	[ Nephropathy TGLs = 14-5 ]		
* Liver		Hepatocellular Adenoma Hyperplasia Leukemia Mononuclear	Multiple Moderate
	Bile Duct		
	[ Hepatocellular Adenoma TGLs = 11-24,12-25,13-26,19-6 ]		
	[ Hyperplasia TGLs = 9-6 ]		
	[ Leukemia Mononuclear TGLs = 9-6 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 149

TMT: 5

SEX: Male

DAY ON TEST: 724

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 112114

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[ Alveolar/Bronchiolar Carcinoma TGLs = 16-2 ]

[ Leukemia Mononuclear TGLs = 16-2 ]

Lymph Node

Mediastinal

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

[ Leukemia Mononuclear TGLs = 15-3 ]

[ Leukemia Mononuclear TGLs = 6-7 ]

\* Lymph Node, Mesenteric

Leukemia Mononuclear

[ Leukemia Mononuclear TGLs = 7-5 ]

\* Mammary Gland

Hyperplasia

Mild

\* Pancreas

Atrophy

Mild

\* Pituitary Gland

Pars Distalis

Cytoplasmic Alteration

Focal, Mild

Pars Distalis

Hyperplasia

Focal, Mild

\* Preputial Gland

Inflammation

Chronic, Mild

\* Prostate

Inflammation

Chronic, Mild

\* Skin

SOA

Hyperkeratosis

Minimal

Keratoacanthoma

[ Keratoacanthoma TGLs = 17-27 ]

\* Spleen

Hemorrhage

Marked

Leukemia Mononuclear

Necrosis

Marked

[ Hemorrhage TGLs = 4-21 ]

[ Leukemia Mononuclear TGLs = 3-6 ]

[ Necrosis TGLs = 5-22 ]

\* Stomach, Glandular

Erosion

Mild

\* Testes

Bilateral, Interstit Cell

Adenoma

Germinal Epith

Atrophy

Minimal

[ Adenoma TGLs = 2-7 ]

\* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 150

**TMT:** 5  
**DOSE:** 30 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 554  
**HISTO:** 112115

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Atrophy	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Osteopetrosis	Marked
* Bone Marrow		Hyperplasia	Moderate
* Eye	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
* Lung		Leukemia Mononuclear	
		Metaplasia	Osseous, Moderate
	[ Metaplasia TGLs = 5-22 ]		
Lymph Node	Mediastinal	Carcinoma	Metastatic (Pancreas)
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-7 ]		
* Lymph Node, Mesenteric		Carcinoma	Metastatic (Pancreas)
		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 150

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 554

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112115

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland		Leukemia Mononuclear Leukemia Mononuclear Pigmentation	Marked
	[ Leukemia Mononuclear TGLs = 6-1 ] [ Pigmentation TGLs = 6-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia Ulcer	Moderate Marked
	[ Hyperplasia TGLs = 7-21 ] [ Ulcer TGLs = 7-21 ]		
* Spleen		Leukemia Mononuclear Pigmentation	Moderate
* Thymus		Inflammation Leukemia Mononuclear	Chronic, Marked
	[ Inflammation TGLs = 4-3 ] [ Leukemia Mononuclear TGLs = 4-3 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Pancreas Acinus Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 151

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112116

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Trachea                   | * Urinary Bladder        |

**MISSING**

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

**OBSERVATIONS**

- |                   |                             |                         |                     |
|-------------------|-----------------------------|-------------------------|---------------------|
| * Adrenal Cortex  |                             | Degeneration            | Fatty, Mild         |
| * Adrenal Medulla |                             | Hyperplasia             | Mild                |
|                   |                             | Pheochromocytoma Benign |                     |
| * Heart           |                             | Cardiomyopathy          | Moderate            |
| * Kidney          |                             | Nephropathy             | Moderate            |
| * Liver           |                             | Basophilic Focus        |                     |
|                   |                             | Clear Cell Focus        |                     |
|                   | Bile Duct                   | Hyperplasia             | Minimal             |
| * Lung            |                             | Infiltration Cellular   | Histiocyte, Minimal |
| Lymph Node        | Mediastinal                 | Hemorrhage              | Mild                |
|                   | Mediastinal                 | Hyperplasia             | Lymphoid, Mild      |
|                   | Mediastinal                 | Pigmentation            | Mild                |
|                   | [ Hemorrhage TGLs = 3-3 ]   |                         |                     |
|                   | [ Hyperplasia TGLs = 3-3 ]  |                         |                     |
|                   | [ Pigmentation TGLs = 3-3 ] |                         |                     |
| * Mammary Gland   |                             | Hyperplasia             | Moderate            |
| * Nose            |                             | Foreign Body            |                     |
|                   | Respirat Epith              | Hyperplasia             | Mild                |
|                   |                             | Inflammation            | Chronic, Moderate   |
| * Pancreas        |                             | Atrophy                 | Moderate            |
| * Pituitary Gland | Pars Distalis               | Angiectasis             | Marked              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 151

TMT: 7

SEX: Male

DAY ON TEST: 732

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112116

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Pars Distalis	Hyperplasia Inflammation	Focal, Mild Chronic, Moderate
[ Inflammation TGLs = 2-7-1 ]			
* Skin	SOA Epidermis	Hyperkeratosis Hyperplasia Ulcer	Moderate Moderate Moderate
[ Hyperplasia TGLs = 4-21 ]			
[ Ulcer TGLs = 4-21 ]			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Mild
[ Adenoma TGLs = 1-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 152

TMT: 7  
 DOSE: 90 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 112117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone                   | * Bone Marrow              | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Parathyroid Gland      | * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |  |                           |                   |
|-------------------|--|---------------------------|-------------------|
| * Adrenal Cortex  |  | Degeneration              | Fatty, Mild       |
| * Adrenal Medulla |  | Hyperplasia               | Mild              |
| * Brain           |  | Compression               | Moderate          |
|                   | [ Compression TGLs = 8-1 ]               |                           |                   |
| * Eye             | Retina                                   | Degeneration              | Mild              |
| * Harderian Gland |  | Hyperplasia               | Focal, Mild       |
| * Heart           |  | Cardiomyopathy            | Moderate          |
| * Kidney          |  | Inflammation              | Chronic, Moderate |
|                   | [ Inflammation TGLs = 4-5 ]              | Nephropathy               | Marked            |
|                   | [ Nephropathy TGLs = 4-5 ]               |                           |                   |
| * Liver           |  | Basophilic Focus          |                   |
|                   |  | Eosinophilic Focus        |                   |
|                   | Bile Duct                                | Hyperplasia               | Minimal           |
|                   |  | Leukemia Mononuclear      |                   |
|                   | Hepatocyte                               | Vacuolization Cytoplasmic | Mild              |
|                   | [ Eosinophilic Focus TGLs = 5-6 ]        |                           |                   |
|                   | [ Hyperplasia TGLs = 5-6 ]               |                           |                   |
|                   | [ Leukemia Mononuclear TGLs = 5-6 ]      |                           |                   |
|                   | [ Vacuolization Cytoplasmic TGLs = 5-6 ] |                           |                   |
| Lymph Node        | Pancreatic                               | Ectasia                   | Moderate          |
|                   | [ Ectasia TGLs = 3-7 ]                   |                           |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 152

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112117

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Ectasia	Mild
		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLs = 1-8,2-21 ]		
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 7-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Moderate
	Control	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 6-22 ]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Minimal
* Testes	Germinal Epith	Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 153

TMT: 7  
 DOSE: 90 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 112118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Pancreas                |
| * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |  |                       |                  |
|--|-----------------------|------------------|
| * Adrenal Cortex                         | Degeneration          | Fatty, Mild      |
| * Adrenal Medulla                        | Hyperplasia           | Minimal          |
| * Bone Marrow                            | Leukemia Mononuclear  |                  |
| * Brain                                  | Compression           | Marked           |
| [ Compression TGLs = 6-1 ]               |                       |                  |
| * Heart                                  | Cardiomyopathy        | Mild             |
| * Islets, Pancreatic                     | Adenoma               |                  |
| Note: THE ISLET ADENOMA IS ON SLIDE 4.   |                       |                  |
| * Kidney                                 | Nephropathy           | Mild             |
| * Liver                                  | Basophilic Focus      |                  |
|  | Eosinophilic Focus    |                  |
|  | Bile Duct             | Mild             |
|  | Hyperplasia           |                  |
|  | Leukemia Mononuclear  |                  |
|  | Hepatocyte            | Mild             |
| [ Basophilic Focus TGLs = 3-6 ]          |                       |                  |
| [ Hyperplasia TGLs = 3-6 ]               |                       |                  |
| [ Leukemia Mononuclear TGLs = 3-6 ]      |                       |                  |
| [ Vacuolization Cytoplasmic TGLs = 3-6 ] |                       |                  |
| * Lung                                   | Infiltration Cellular | Histiocyte, Mild |
|  | Leukemia Mononuclear  |                  |
| [ Infiltration Cellular TGLs = 5-22 ]    |                       |                  |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 153

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112118

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear	TGLs = 4-3 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia	TGLs = 1-8 ]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma	TGLs = 7-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
[ Hyperplasia	TGLs = 8-21 ]		
[ Ulcer	TGLs = 8-21 ]		
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
[ Hematopoietic Cell Proliferation	TGLs = 2-6 ]		
[ Leukemia Mononuclear	TGLs = 2-6 ]		
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 154

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112119

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Marked
	[ Thrombosis TGLs = 7-12 ]		
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Hyperplasia TGLs = 5-6 ]		
	[ Leukemia Mononuclear TGLs = 5-6 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
	[ Infiltration Cellular TGLs = 8-2 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
Oral Mucosa		Squamous Cell Carcinoma	
	[ Squamous Cell Carcinoma TGLs = 10-9-1,10-22,11-9-1,11-22 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 154

TMT: 7

SEX: Male

DAY ON TEST: 708

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112119

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
	[ Hyperplasia TGLs = 9-21 ]		
	[ Ulcer TGLs = 9-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 2-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis  
- Oral Mucosa Squamous Cell Carcinoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 155

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112120

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                  |                           |                     |
|--------------------------|----------------------------------|---------------------------|---------------------|
| * Adrenal Cortex         |                                  | Degeneration              | Fatty, Moderate     |
| * Adrenal Medulla        |                                  | Hyperplasia               | Moderate            |
|                          |                                  | Pheochromocytoma Benign   | Multiple            |
| * Heart                  |                                  | Cardiomyopathy            | Moderate            |
| * Kidney                 |                                  | Inflammation              | Chronic, Moderate   |
|                          |                                  | Nephropathy               | Marked              |
|                          | [ Inflammation TGLs = 3-5 ]      |                           |                     |
|                          | [ Nephropathy TGLs = 3-5 ]       |                           |                     |
| * Liver                  |                                  | Basophilic Focus          |                     |
|                          |                                  | Mixed Cell Focus          |                     |
|                          |                                  | Vacuolization Cytoplasmic | Moderate            |
|                          | [ Mixed Cell Focus TGLs = 4-21 ] |                           |                     |
| * Lung                   |                                  | Hyperplasia               | Moderate            |
|                          |                                  | Infiltration Cellular     | Histiocyte, Minimal |
|                          | [ Hyperplasia TGLs = 6-22 ]      |                           |                     |
| * Lymph Node, Mesenteric |                                  | Hemorrhage                | Mild                |
|                          |                                  | Hyperplasia               | Lymphoid, Mild      |
| * Mammary Gland          |                                  | Fibroadenoma              |                     |
|                          |                                  | Hyperplasia               | Marked              |
|                          | [ Fibroadenoma TGLs = 8-23 ]     |                           |                     |
|                          | [ Hyperplasia TGLs = 1-8 ]       |                           |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 155

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112120

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 10-24 ]			
* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas	Olfactory Epi	Metaplasia	Respiratory, Mild
	Acinus	Adenoma	
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Acinus	Hyperplasia	Focal, Moderate
	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
Note: THE PITUITARY GLAND FOCAL HYPERPLASIA APPEARS TO BE ENCROACHING ON THE PARS NERVOSA.			
	[ Adenoma TGLs = 9-1 ]		
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 2-7 ]		
* Thymus		Carcinoma	Metastatic (Thyroid Gland)
Note: THYROID FOLLICULAR CELL CARCINOMA AND METASTATIC THYMUS CARCINOMA SHOW OSSEOUS DIFFERENTIATION.			
* Thyroid Gland	C Cell	Carcinoma	
	Follicular Cel	Carcinoma	
Note: C-CELL CARCINOMA AND FOLLICULAR CELL CARCINOMA ARE PRESENT IN SAME LOBE OF THYROID GLAND.			
	[ Carcinoma TGLs = 7-3 ]		
	[ Carcinoma TGLs = 7-3 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 156

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112121

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	Lymph Node	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
		Inflammation	Chronic, Marked
		Ulcer	Marked

[ Hyperplasia TGLs = 1-21,2-22 ]  
 [ Inflammation TGLs = 1-21,2-22 ]

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 156

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112121

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Ulcer TGLs = 1-21 ]

\* Spleen

Hematopoietic Cell Proliferation

Moderate

\* Thyroid Gland

C Cell

Adenoma

---

PRIMARY CAUSE OF DEATH

- Skin Ulcer

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 157

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 449

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112122

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | Peripheral Nerve           | * Preputial Gland         |
| * Salivary Glands           | * Seminal Vesicle        | Spinal Cord                | * Spleen                  |
| * Stomach, Forestomach      | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |  |   |  |
|----------------------|--|---|--|
| * Bone               |  | Osteosarcoma                                |  |
|                      | [ Osteosarcoma TGLs = 2-22 ]   |   |  |
| * Liver              |  | Hepatodiaphragmatic Nodule<br>Necrosis      | Focal, Moderate                                  |
|                      | Note: LIVER NECROSIS IS ON SLIDE 23.<br>[ Hepatodiaphragmatic Nodule TGLs = 6-23 ] |   |  |
| * Lung               | Alveolar Epith   | Hyperplasia<br>Inflammation<br>Osteosarcoma | Minimal<br>Chronic, Minimal<br>Metastatic (Bone) |
|                      | Lymph Node<br>Note: LYMPH NODE, MEDIASTINAL - MISSING.                             |   |  |
| * Pituitary Gland    | Pars Distalis  | Hyperplasia<br>Inflammation                 | Focal, Minimal<br>Chronic, Mild                  |
| * Prostate           |  | Hyperkeratosis                              | Moderate   |
| * Skin               | SOA<br>Epidermis, SOA  | Hyperplasia<br>Trichoepithelioma            | Minimal  |
|                      | [ Trichoepithelioma TGLs = 1-21 ]  |   |  |
| * Stomach, Glandular |  | Cyst  |  |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 157

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 449

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112122

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 158

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112123

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Parathyroid Gland       | * Preputial Gland           | * Salivary Glands        | * Seminal Vesicle          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                             |   |  |
|--------------------------|-----------------------------|---|--|
| * Adrenal Cortex         |                             | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Minimal                           |
| * Adrenal Medulla        |                             | Hyperplasia                                       | Mild                                     |
| * Brain                  |                             | Carcinoma<br>Compression                          | Metastatic (Pituitary Gland)<br>Moderate |
|                          | [ Compression TGLs = 6-1 ]  |   |  |
| * Heart                  |                             | Cardiomyopathy                                    | Moderate                                 |
| * Islets, Pancreatic     |                             | Adenoma   |  |
|                          | [ Adenoma TGLs = 3-7 ]      |   |  |
| * Kidney                 |                             | Nephropathy                                       | Mild                                     |
| * Liver                  |                             | Basophilic Focus                                  |  |
|                          | Bile Duct                   | Hyperplasia                                       | Mild                                     |
|                          |                             | Mixed Cell Focus                                  |  |
| * Lung                   |                             | Alveolar/Bronchiolar Adenoma                      |  |
|                          |                             | Infiltration Cellular                             | Histiocyte, Minimal                      |
| * Lymph Node, Mesenteric |                             | Hyperplasia                                       | Lymphoid, Mild                           |
| * Mammary Gland          |                             | Hyperplasia                                       | Marked                                   |
|                          | [ Hyperplasia TGLs = 1-21 ] |   |  |
| * Nose                   |                             | Foreign Body                                      |  |
|                          | Respirat Epith              | Hyperplasia                                       | Mild                                     |
|                          |                             | Inflammation                                      | Chronic, Minimal                         |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 158

TMT: 7

SEX: Male

DAY ON TEST: 730

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112123

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	
[ Carcinoma TGLs = 5-1 ]		Carcinoma	
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLs = 4-22 ]			
[ Ulcer TGLs = 4-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLs = 2-7 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 159

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112124

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
Mesentery		Accessory Spleen	
	Fat	Necrosis	Minimal
	[ Accessory Spleen TGLs = 1-21 ]		
	[ Necrosis TGLs = 2-22 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas		Atrophy	Moderate
	Acinus	Hyperplasia	Focal, Moderate
	[ Atrophy TGLs = 3-7 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 159

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112124

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 160

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112125

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Brain                  | * Epididymis               |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung                    | * Parathyroid Gland         | * Salivary Glands        | * Seminal Vesicle          |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                |                                   |                    |
|--------------------------|----------------|-----------------------------------|--------------------|
| * Adrenal Cortex         |                | Accessory Adrenal Cortical Nodule |                    |
| * Adrenal Medulla        |                | Hyperplasia                       | Mild               |
| * Eye                    | Retina         | Degeneration                      | Moderate           |
| * Heart                  |                | Cardiomyopathy                    | Moderate           |
| * Islets, Pancreatic     |                | Adenoma                           |                    |
| * Kidney                 |                | Inflammation                      | Chronic, Mild      |
|                          |                | Nephropathy                       | Moderate           |
| * Liver                  |                | Basophilic Focus                  |                    |
|                          | Bile Duct      | Hyperplasia                       | Mild               |
|                          |                | Infiltration Cellular             | Mixed Cell, Mild   |
| * Lymph Node, Mesenteric |                | Hyperplasia                       | Lymphoid, Mild     |
| * Mammary Gland          |                | Hyperplasia                       | Mild               |
| Mesentery                | Fat            | Necrosis                          | Mild               |
|                          |                |                                   |                    |
|                          |                |                                   |                    |
|                          |                |                                   |                    |
| * Nose                   |                | Foreign Body                      |                    |
|                          |                | Fungus                            |                    |
|                          | Respirat Epith | Hyperplasia                       | Moderate           |
|                          |                | Inflammation                      | Chronic, Moderate  |
|                          | Respirat Epith | Metaplasia                        | Squamous, Moderate |
|                          | Olfactory Epi  | Metaplasia                        | Respiratory, Mild  |
| * Pancreas               |                | Atrophy                           | Minimal            |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 160

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112125

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Adenoma	
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Inflammation	Chronic, Moderate
	Epidermis, SOA	Hyperkeratosis	Marked
	Control Epider	Hyperplasia	Minimal
* Testes	Germinal Epith	Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Atrophy	Moderate
		Adenoma	

[ Adenoma TGLs = 2-3 ]

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 161

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112126

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Mild
* Brain		Compression	Marked
[ Compression TGLs = 4-1 ]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	Multiple
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 5-1 ]			

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 161

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112126

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
[ Inflammation TGLs = 3-7-1 ]			
* Skin	SOA	Hyperkeratosis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

Animal Note: COLON IS ON SLIDE 3; JEJUNUM IS ON SLIDE 4.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 162

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 633

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112127

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                      |                          |
|---------------------------|-----------------------------|----------------------|--------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow        | * Epididymis             |
| * Esophagus               | * Eye                       | * Harderian Gland    | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Nose                    | * Parathyroid Gland         | * Preputial Gland    | * Salivary Glands        |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular | * Thymus                 |
| * Trachea                 | * Urinary Bladder           |                      |                          |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- |                          |                            |                 |
|--------------------------|----------------------------|-----------------|
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland |
|--------------------------|----------------------------|-----------------|

**OBSERVATIONS**

- |                          |  |                                   |          |
|--------------------------|--|-----------------------------------|----------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |          |
|                          |  | Adenoma                           |          |
| * Brain                  |  | Compression                       | Mild     |
|                          | [ Compression TGLs = 7-1 ]             |                                   |          |
| * Heart                  |  | Cardiomyopathy                    | Moderate |
| * Intestine Large, Cecum |  | Angiectasis                       | Moderate |
|                          | [ Angiectasis TGLs = 5-23 ]            |                                   |          |
| * Kidney                 |  | Nephropathy                       | Minimal  |
| * Liver                  |  | Hepatocellular Adenoma            |          |
|                          | Bile Duct                              | Hyperplasia                       | Minimal  |
|                          | [ Hepatocellular Adenoma TGLs = 4-22 ] |                                   |          |
| * Lung                   |  | Alveolar/Bronchiolar Adenoma      |          |
| * Mammary Gland          |  | Hyperplasia                       | Moderate |
| Mesentery                |  | Accessory Spleen                  |          |
|                          | [ Accessory Spleen TGLs = 3-21 ]       |                                   |          |
| * Pancreas               |  | Atrophy                           | Mild     |
| * Pituitary Gland        | Pars Distalis                          | Adenoma                           |          |
|                          | [ Adenoma TGLs = 8-1 ]                 |                                   |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 162

TMT: 7

SEX: Male

DAY ON TEST: 633

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112127

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Moderate
[ Inflammation TGLs = 2-7-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Marked
[ Hyperplasia TGLs = 6-24 ]			
[ Ulcer TGLs = 6-24 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[ Adenoma TGLs = 1-7 ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 163

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 112128

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Pancreas                | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |   |                               |
|--------------------------|--|---|-------------------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Minimal                |
| * Adrenal Medulla        |  | Hyperplasia<br>Pheochromocytoma Benign            | Mild<br>Multiple              |
| * Heart                  |  | Cardiomyopathy                                    | Moderate                      |
| * Islets, Pancreatic     |  | Adenoma   |                               |
| * Kidney                 |  | Inflammation<br>Nephropathy                       | Chronic, Moderate<br>Moderate |
|                          | [ Inflammation TGLs = 8-5 ]              |   |                               |
|                          | [ Nephropathy TGLs = 8-5 ]               |   |                               |
| * Liver                  |  | Basophilic Focus<br>Clear Cell Focus              |                               |
| * Lung                   |  | Infiltration Cellular                             | Histiocyte, Minimal           |
| Lymph Node               |  |   |                               |
|                          | Note: LYMPH NODE, MEDIASTINAL - MISSING. |   |                               |
| * Lymph Node, Mesenteric |  | Hemorrhage<br>Hyperplasia                         | Minimal<br>Lymphoid, Mild     |
| * Mammary Gland          |  | Hyperplasia                                       | Marked                        |
|                          | [ Hyperplasia TGLs = 1-21,2-22,3-8 ]     |   |                               |
| Mesentery                | Fat                                      | Necrosis  | Moderate                      |
|                          | [ Necrosis TGLs = 5-23,7-24 ]            |   |                               |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 163

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112128

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 10-1 ]		
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
	[ Hyperplasia TGLs = 9-25 ]		
	[ Ulcer TGLs = 9-25 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[ Hematopoietic Cell Proliferation TGLs = 6-6 ]		
* Testes	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 164

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112129

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Pancreas                  | * Salivary Glands        | * Seminal Vesicle          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

**OBSERVATIONS**

- |                          |                                     |                                   |                     |
|--------------------------|-------------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex         |                                     | Accessory Adrenal Cortical Nodule |                     |
| * Adrenal Medulla        |                                     | Hyperplasia                       | Minimal             |
| * Brain                  |                                     | Compression                       | Mild                |
|                          | [ Compression TGLs = 9-1 ]          |                                   |                     |
| * Heart                  |                                     | Cardiomyopathy                    | Moderate            |
| * Kidney                 |                                     | Inflammation                      | Chronic, Mild       |
|                          |                                     | Nephropathy                       | Moderate            |
| * Liver                  |                                     | Basophilic Focus                  |                     |
|                          | Bile Duct                           | Hyperplasia                       | Minimal             |
|                          |                                     | Leukemia Mononuclear              |                     |
| * Lung                   |                                     | Hyperplasia                       | Moderate            |
|                          | Alveolar Epith                      | Infiltration Cellular             | Histiocyte, Minimal |
|                          |                                     | Inflammation                      | Chronic, Minimal    |
|                          | [ Hyperplasia TGLs = 5-24 ]         |                                   |                     |
| Lymph Node               | Mediastinal                         | Leukemia Mononuclear              |                     |
|                          | [ Leukemia Mononuclear TGLs = 4-3 ] |                                   |                     |
| * Lymph Node, Mesenteric |                                     | Hyperplasia                       | Lymphoid, Mild      |
| * Mammary Gland          |                                     | Adenoma                           |                     |
|                          |                                     | Hyperplasia                       | Marked              |
|                          | [ Adenoma TGLs = 2-21 ]             |                                   |                     |
|                          | [ Hyperplasia TGLs = 1-8 ]          |                                   |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 164

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112129

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Marked
	Epidermis	Hyperplasia	Marked
		Squamous Cell Papilloma	
		Ulcer	Marked
	[ Hyperplasia TGLs = 6-22 ]		
	[ Squamous Cell Papilloma TGLs = 7-23 ]		
	[ Ulcer TGLs = 6-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLs = 3-7 ]		

Animal Note: THE LEUKEMIA APPEARS TO BE IN AN EARLY STAGE.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 165

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112130

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Bone                    | * Brain                     | * Epididymis               | * Esophagus              |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Lung                   |
| * Pancreas                | * Parathyroid Gland         | * Preputial Gland          | * Seminal Vesicle        |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                   | * Thyroid Gland          |
| * Trachea                 | * Urinary Bladder           |                            |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                     |   |                  |
|--------------------------|-------------------------------------|---|------------------|
| * Adrenal Cortex         |                                     | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Minimal   |
| * Adrenal Medulla        |                                     | Pheochromocytoma Benign                           | Multiple         |
| * Bone Marrow            |                                     | Leukemia Mononuclear                              |                  |
| * Heart                  |                                     | Cardiomyopathy                                    | Minimal          |
| * Intestine Small, Ileum |                                     | Leukemia Mononuclear                              |                  |
| * Islets, Pancreatic     |                                     | Adenoma   | Multiple         |
| * Kidney                 |                                     | Nephropathy                                       | Minimal          |
| * Liver                  |                                     | Basophilic Focus                                  |                  |
|                          | Bile Duct                           | Hyperplasia                                       | Moderate         |
|                          |                                     | Infiltration Cellular                             | Mixed Cell, Mild |
|                          |                                     | Leukemia Mononuclear                              |                  |
|                          | [ Leukemia Mononuclear TGLs = 5-6 ] |   |                  |
|                          | Lymph Node                          | Mediastinal                                       | Ectasia          |
|                          |                                     | Pancreatic  | Moderate         |
|                          |                                     | Mediastinal                                       | Moderate         |
|                          | [ Ectasia TGLs = 3-3 ]              |   |                  |
|                          | [ Ectasia TGLs = 1-7 ]              |   |                  |
|                          | [ Leukemia Mononuclear TGLs = 3-3 ] |   |                  |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear                              |                  |
| * Mammary Gland          |                                     | Hyperplasia                                       | Moderate         |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 165

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112130

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Schwannoma Malignant	Metastatic (Skin)
Note: METASTATIC SALIVARY GLAND SCHWANNOMA IS ON SLIDE 21 ALONG WITH PRIMARY SKIN SCHWANNOMA.			
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
	Control Epider	Hyperplasia	Minimal
		Schwannoma Malignant	
		Ulcer	Marked
Note: MALIGNANT SCHWANNOMA IS ON SLIDE 21.			
	[ Hyperplasia TGLs = 6-22 ]		
	[ Schwannoma Malignant TGLs = 4-21 ]		
	[ Ulcer TGLs = 6-22 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 166

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112131

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Parathyroid Gland         |
| * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**MISSING**

- |             |                          |
|-------------|--------------------------|
| * Esophagus | * Lymph Node, Mandibular |
|-------------|--------------------------|

**OBSERVATIONS**

- |  |                |                       |                     |
|--|----------------|-----------------------|---------------------|
| * Heart                                  |                | Cardiomyopathy        | Moderate            |
| * Kidney                                 |                | Inflammation          | Chronic, Mild       |
|  |                | Nephropathy           | Moderate            |
| * Liver                                  |                | Basophilic Focus      |                     |
|  |                | Clear Cell Focus      |                     |
|  | Bile Duct      | Hyperplasia           | Moderate            |
|  |                | Leukemia Mononuclear  |                     |
| * Lung                                   |                | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node                               |                |                       |                     |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                |                       |                     |
| * Lymph Node, Mesenteric                 |                | Ectasia               | Mild                |
|  |                | Hyperplasia           | Lymphoid, Mild      |
| * Mammary Gland                          |                | Hyperplasia           | Moderate            |
| * Nose                                   |                | Foreign Body          |                     |
|  |                | Fungus                |                     |
|  | Respirat Epith | Hyperplasia           | Mild                |
|  |                | Inflammation          | Chronic, Moderate   |
|  | Respirat Epith | Metaplasia            | Squamous, Mild      |
|  | Olfactory Epi  | Metaplasia            | Respiratory, Mild   |
| * Pancreas                               |                | Atrophy               | Marked              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 166

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112131

ORGAN AND ACCOUNTABLE SITE STATUS

[ Atrophy TGLs = 2-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 3-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLs = 1-7 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 167

TMT: 7  
 DOSE: 90 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 112132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |  |                                   |                  |
|-------------------|--|-----------------------------------|------------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule |                  |
|                   |  | Degeneration                      | Fatty, Minimal   |
|                   |  | Hypertrophy                       | Focal, Minimal   |
| * Adrenal Medulla |  | Hyperplasia                       | Mild             |
| * Brain           |  | Compression                       | Moderate         |
|                   | [ Compression TGLs = 7-1 ]               |                                   |                  |
| * Heart           |  | Cardiomyopathy                    | Moderate         |
| * Kidney          |  | Inflammation                      | Chronic, Minimal |
|                   | [ Inflammation TGLs = 2-5 ]              | Nephropathy                       | Mild             |
|                   | [ Nephropathy TGLs = 2-5 ]               |                                   |                  |
| * Liver           |  | Basophilic Focus                  |                  |
|                   | Bile Duct                                | Hyperplasia                       | Minimal          |
| Lymph Node        |  |                                   |                  |
|                   | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                   |                  |
| * Mammary Gland   |  | Hyperplasia                       | Moderate         |
| Mesentery         | Fat                                      | Necrosis                          | Moderate         |
|                   | [ Necrosis TGLs = 1-21 ]                 |                                   |                  |
| * Nose            |  | Inflammation                      | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis                            | Adenoma                           |                  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 167

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112132

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 6-1 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLs = 4-22,5-23 ]			
[ Ulcer TGLs = 4-22,5-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Atrophy	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 168

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112133

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Parathyroid Gland      | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |  |                                   |
|--------------------------|--|--|-----------------------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hyperplasia<br>Leukemia Mononuclear | Fatty, Minimal<br>Focal, Moderate |
| * Bone Marrow            |  | Leukemia Mononuclear   |                                   |
| * Brain                  |  | Compression  | Marked                            |
|                          | [ Compression TGLs = 15-1 ]              |  |                                   |
| * Heart                  |  | Cardiomyopathy   | Moderate                          |
| * Kidney                 |  | Nephropathy  | Mild                              |
|                          | [ Nephropathy TGLs = 6-5 ]               |  |                                   |
| * Liver                  |  | Bile Duct<br>Hepatocyte  | Moderate<br>Focal, Minimal        |
| * Lung                   |  | Hyperplasia<br>Leukemia Mononuclear<br>Infiltration Cellular                             | Histiocyte, Minimal               |
| Lymph Node               | Mediastinal                              | Leukemia Mononuclear   |                                   |
|                          | [ Leukemia Mononuclear TGLs = 8-3 ]      |  |                                   |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear   |                                   |
|                          | [ Leukemia Mononuclear TGLs = 5-5,7-21 ] |  |                                   |
| * Mammary Gland          |  | Hyperplasia  | Moderate                          |
|                          | [ Hyperplasia TGLs = 1-8 ]               |  |                                   |
| * Pancreas               |  | Atrophy  | Mild                              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 168

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112133

ORGAN AND ACCOUNTABLE SITE STATUS

Cyst

Leukemia Mononuclear

Note: THE LESION IN TGL 4-7 INCLUDES ACCESSORY SPLEEN IN MESENTERY WITH LEUKEMIA INFILTRATION; ACCESSORY SPLEEN NOT TABULATED AS MESENTERY IS NONPROTOCOL-REQUIRED.

[ Leukemia Mononuclear TGLs = 4-7 ]

\* Pituitary Gland Pars Distalis

Adenoma

[ Adenoma TGLs = 14-1 ]

\* Preputial Gland

Inflammation

Chronic, Mild

\* Prostate

Epithelium

Hyperplasia

Minimal

Inflammation

Chronic, Moderate

Skeletal Muscle

Osteosarcoma

Metastatic (Uncertain Primary Site)

[ Osteosarcoma TGLs = 10-22 ]

\* Skin

SOA

Hyperkeratosis

Marked

Epidermis

Hyperplasia

Marked

Epidermis, SOA

Hyperplasia

Minimal

Ulcer

Marked

[ Hyperplasia TGLs = 11-23,12-24 ]

[ Ulcer TGLs = 11-23,12-24 ]

\* Spleen

Leukemia Mononuclear

[ Leukemia Mononuclear TGLs = 3-6 ]

\* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Moderate

[ Adenoma TGLs = 2-7 ]

\* Thymus

Leukemia Mononuclear

\* Thyroid Gland

C Cell

Adenoma

[ Adenoma TGLs = 9-3 ]

Zymbal's Gland

Carcinoma

[ Carcinoma TGLs = 13-25 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 169

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112134

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Trachea

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Marked
	[ Thrombosis TGLs = 8-12 ]		
* Kidney	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Suppurative, Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
	[ Leukemia Mononuclear TGLs = 5-5 ]		
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
	Centrilobular	Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 169

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112134

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Hyperplasia TGLs = 7-6 ]		
	[ Leukemia Mononuclear TGLs = 7-6 ]		
	[ Mixed Cell Focus TGLs = 7-6 ]		
	[ Necrosis TGLs = 7-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 7-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Note: LYMPH NODE, MEDIASTINAL - MISSING.		
	[ Leukemia Mononuclear TGLs = 3-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic, Marked
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic, Mild
		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6 ]		
* Stomach, Glandular		Erosion	Mild
	[ Erosion TGLs = 9-4 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 4-7 ]		
* Thyroid Gland	C Cell	Adenoma	
Tongue	Epithelium	Hyperplasia	Mild
	[ Hyperplasia TGLs = 10-22 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 169

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112134

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Transit Epithe

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Heart Thrombosis

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 170

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 658

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112135

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Nose                    |
| * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |   |                     |
|----------------------|---|---------------------|
| * Adrenal Cortex     | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Moderate     |
| * Adrenal Medulla    | Leukemia Mononuclear                              |                     |
| * Bone Marrow        | Leukemia Mononuclear                              |                     |
| * Brain              | Compression<br>Leukemia Mononuclear               | Moderate            |
|                      | [ Compression TGLs = 17-1 ]                       |                     |
|                      | [ Leukemia Mononuclear TGLs = 16-1 ]              |                     |
| * Heart              | Cardiomyopathy                                    | Mild                |
| * Islets, Pancreatic | Adenoma   |                     |
| * Kidney             | Leukemia Mononuclear<br>Nephropathy               | Minimal             |
| * Liver              | Leukemia Mononuclear<br>Necrosis                  | Focal, Mild         |
|                      | [ Leukemia Mononuclear TGLs = 11-6 ]              |                     |
|                      | [ Necrosis TGLs = 11-6 ]                          |                     |
| * Lung               | Infiltration Cellular<br>Leukemia Mononuclear     | Histiocyte, Minimal |
|                      | [ Leukemia Mononuclear TGLs = 14-2 ]              |                     |
| Lymph Node           | Pancreatic<br>Ectasia                             | Marked              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 170

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 658

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112135

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Ectasia TGLs = 10-22 ]		
	[ Leukemia Mononuclear TGLs = 13-3 ]		
	[ Leukemia Mononuclear TGLs = 5-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 9-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery		Accessory Spleen	
	[ Accessory Spleen TGLs = 4-24 ]		
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 18-1 ]		
* Prostate		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 3-7-1 ]		
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Marked
	[ Hyperplasia TGLs = 15-23 ]		
	[ Ulcer TGLs = 15-23 ]		
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[ Leukemia Mononuclear TGLs = 6-25,8-25 ]		
	[ Necrosis TGLs = 7-21 ]		
* Stomach, Glandular		Erosion	Mild
	[ Erosion TGLs = 19-4 ]		
* Testes	Interstit Cell	Adenoma	
	[ Adenoma TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 170

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 658

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112135

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 171

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112136

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Stomach, Glandular        | * Thymus                 |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |                                   |                     |
|-------------------|--|-----------------------------------|---------------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule |                     |
| * Bone Marrow     |  | Hyperplasia                       | Moderate            |
| * Heart           |  | Cardiomyopathy                    | Moderate            |
| * Kidney          |  | Nephropathy                       | Mild                |
|                   | [ Nephropathy TGLs = 1-5 ]               |                                   |                     |
| * Liver           |  | Angiectasis                       | Minimal             |
|                   | [ Angiectasis TGLs = 2-21 ]              |                                   |                     |
|                   | Bile Duct                                | Hyperplasia                       | Mild                |
| * Lung            |  | Alveolar Epith                    | Minimal             |
|                   | [ Infiltration Cellular TGLs = 3-2 ]     |                                   |                     |
|                   | Lymph Node                               | Infiltration Cellular             | Histiocyte, Minimal |
|                   | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                   |                     |
| * Pituitary Gland | Pars Intermed                            | Cyst                              |                     |
|                   | Pars Distalis                            | Hyperplasia                       | Focal, Minimal      |
| * Prostate        |  | Inflammation                      | Chronic, Mild       |
| * Skin            | SOA                                      | Hyperkeratosis                    | Minimal             |
|                   | Epidermis                                | Hyperplasia                       | Marked              |
|                   |  | Ulcer                             | Marked              |
|                   | [ Hyperplasia TGLs = 4-22 ]              |                                   |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 171

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112136

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Ulcer TGLs = 4-22 ]

* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
	[ Hyperplasia TGLs = 5-4 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 172

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112137

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Mild Focal, Mild
[ Hyperplasia TGLs = 3-10 ]			
* Brain		Compression	Marked
[ Compression TGLs = 5-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[ Fibroadenoma TGLs = 4-21 ]			
[ Hyperplasia TGLs = 2-8 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 6-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Mild

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 172

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112137

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Pigmentation

Moderate

\* Testes

Germinal Epith

Atrophy

Moderate

Interstit Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 173

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 112138

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric  |
| * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |  |                                   |                      |
|----------------------|--|-----------------------------------|----------------------|
| * Adrenal Cortex     |  | Accessory Adrenal Cortical Nodule |                      |
| * Adrenal Medulla    |  | Hyperplasia                       | Mild                 |
| * Bone Marrow        |  | Leukemia Mononuclear              |                      |
| * Brain              |  | Compression                       | Minimal              |
|                      | [ Compression TGLs = 6-1 ]                 |                                   |                      |
| * Heart              |  | Cardiomyopathy                    | Mild                 |
| * Islets, Pancreatic |  | Adenoma                           |                      |
| * Kidney             |  | Inflammation                      | Suppurative, Minimal |
|                      |  | Inflammation                      | Chronic, Moderate    |
|                      |  | Nephropathy                       | Moderate             |
| * Liver              |  | Basophilic Focus                  |                      |
|                      |  | Hepatodiaphragmatic Nodule        |                      |
|                      |  | Leukemia Mononuclear              |                      |
|                      |  | Mixed Cell Focus                  |                      |
|                      | [ Hepatodiaphragmatic Nodule TGLs = 2-21 ] |                                   |                      |
| * Lung               |  | Foreign Body                      |                      |
|                      |  | Inflammation                      | Chronic, Minimal     |
| Lymph Node           |  | Hemorrhage                        | Minimal              |
|                      | Mediastinal                                | Hyperplasia                       | Lymphoid, Moderate   |
|                      | Mediastinal                                |                                   |                      |
|                      | [ Hemorrhage TGLs = 3-3 ]                  |                                   |                      |
|                      | [ Hyperplasia TGLs = 3-3 ]                 |                                   |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 173

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112138

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Hyperplasia	Marked
* Nose		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Prostate		Inflammation	Chronic, Moderate
* Seminal Vesicle		Degeneration	Moderate
	Note: DEGENERATION INVOLVES SEMINAL VESICULAR SECRETIONS.		
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Marked
	[ Hyperplasia TGLs = 4-22 ]		
	[ Ulcer TGLs = 4-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]		
	[ Leukemia Mononuclear TGLs = 1-6 ]		
* Testes	Germinal Epith	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 174

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 730  
**HISTO:** 112139

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose                    | * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |  |                            |                  |
|----------------------|--|----------------------------|------------------|
| * Adrenal Cortex     |  | Degeneration               | Fatty, Moderate  |
|                      |  | Hyperplasia                | Focal, Moderate  |
| * Adrenal Medulla    |  | Hyperplasia                | Moderate         |
|                      |  | Pheochromocytoma Benign    |                  |
| * Brain              |  | Compression                | Moderate         |
|                      | [ Compression TGLs = 7-1 ]                 |                            |                  |
| * Heart              |  | Cardiomyopathy             | Moderate         |
| * Islets, Pancreatic |  | Adenoma                    |                  |
| * Kidney             |  | Inflammation               | Chronic, Mild    |
|                      |  | Nephropathy                | Mild             |
| * Liver              |  | Basophilic Focus           |                  |
|                      |  | Hepatodiaphragmatic Nodule |                  |
|                      | Bile Duct                                  | Hyperplasia                | Minimal          |
|                      |  | Leukemia Mononuclear       |                  |
|                      |  | Mixed Cell Focus           |                  |
|                      | [ Hepatodiaphragmatic Nodule TGLs = 5-22 ] |                            |                  |
| * Lung               |  | Metaplasia                 | Osseous, Minimal |
| Lymph Node           | Pancreatic                                 | Ectasia                    | Moderate         |
|                      | Pancreatic                                 | Hyperplasia                | Lymphoid, Mild   |
|                      | Mediastinal                                | Leukemia Mononuclear       |                  |
|                      | [ Ectasia TGLs = 3-23 ]                    |                            |                  |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 174

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112139

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLs = 6-3 ]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 2-21 ]			
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 8-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 4-6 ]			
* Stomach, Glandular	Glands	Hyperplasia	Mild
* Testes	Germinal Epith	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 175

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112140

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Mammary Gland             |
| * Nose                   | * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           |
| * Seminal Vesicle        | * Stomach, Forestomach     | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                    |                                   |                  |
|--------------------------|------------------------------------|-----------------------------------|------------------|
| * Adrenal Cortex         |                                    | Accessory Adrenal Cortical Nodule |                  |
|                          |                                    | Degeneration                      | Fatty, Minimal   |
| * Heart                  |                                    | Cardiomyopathy                    | Mild             |
| * Islets, Pancreatic     |                                    | Carcinoma                         |                  |
| * Kidney                 | Renal Tubule                       | Hyperplasia                       | Mild             |
|                          |                                    | Nephropathy                       | Minimal          |
| * Liver                  |                                    | Basophilic Focus                  |                  |
|                          |                                    | Eosinophilic Focus                |                  |
|                          | Bile Duct                          | Hyperplasia                       | Minimal          |
|                          | Hepatocyte                         | Vacuolization Cytoplasmic         | Mild             |
|                          | [ Eosinophilic Focus TGLs = 2-22 ] |                                   |                  |
| * Lymph Node, Mesenteric |                                    | Hyperplasia                       | Lymphoid, Mild   |
| * Pancreas               |                                    | Atrophy                           | Moderate         |
| * Preputial Gland        |                                    | Inflammation                      | Chronic, Mild    |
| * Prostate               | Epithelium                         | Hyperplasia                       | Minimal          |
|                          |                                    | Inflammation                      | Chronic, Minimal |
| * Skin                   | SOA                                | Hyperkeratosis                    | Moderate         |
|                          | Epidermis                          | Hyperplasia                       | Moderate         |
|                          | Epidermis, SOA                     | Hyperplasia                       | Minimal          |
|                          |                                    | Ulcer                             | Marked           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 175

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112140

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hyperplasia TGLs = 1-21 ]			
[ Ulcer TGLs = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Glands	Hyperplasia	Moderate
[ Hyperplasia TGLs = 3-23 ]			
* Testes	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 176

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 112141

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Mild
* Nose		Foreign Body	
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Angiectasis TGLs = 2-1 ]		
	[ Hyperplasia TGLs = 2-1 ]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Moderate

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 176

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112141

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen	Epidermis, SOA	Hyperplasia	Mild
* Testes	Interstit Cell	Hematopoietic Cell Proliferation	Mild
	Germinal Epith	Adenoma	
		Atrophy	Minimal
[ Adenoma TGLs = 1-7 ]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 177

TMT: 7  
 DOSE: 90 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 112142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Parathyroid Gland      | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                          |  |                                   |                  |
|--------------------------|--|-----------------------------------|------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |                  |
| * Heart                  |  | Cardiomyopathy                    | Mild             |
| * Kidney                 |  | Inflammation                      | Chronic, Mild    |
|                          |  | Nephropathy                       | Moderate         |
| * Liver                  |  | Basophilic Focus                  |                  |
|                          |  | Clear Cell Focus                  |                  |
|                          |  | Eosinophilic Focus                |                  |
|                          |  | Hepatodiaphragmatic Nodule        |                  |
|                          | Bile Duct                                  | Hyperplasia                       | Minimal          |
|                          |  | Mixed Cell Focus                  |                  |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 4-22 ] |                                   |                  |
| * Lymph Node, Mesenteric |  | Hemorrhage                        | Mild             |
|                          | [ Hemorrhage TGLs = 3-21 ]                 |                                   |                  |
| * Mammary Gland          |  | Hyperplasia                       | Moderate         |
|                          | [ Hyperplasia TGLs = 1-8 ]                 |                                   |                  |
| * Nose                   |  | Foreign Body                      |                  |
|                          |  | Inflammation                      | Chronic, Minimal |
| * Pancreas               |  | Cyst                              |                  |
| * Pituitary Gland        | Pars Distalis                              | Adenoma                           |                  |
|                          | [ Adenoma TGLs = 6-1 ]                     |                                   |                  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 177

TMT: 7

SEX: Male

DAY ON TEST: 730

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112142

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	SOA	Hyperkeratosis	Marked
	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 178

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112143

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                            |   |                           |
|--------------------------|----------------------------|---|---------------------------|
| * Adrenal Cortex         |                            | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Minimal            |
| * Adrenal Medulla        |                            | Hyperplasia                                       | Mild                      |
| * Brain                  |                            | Compression                                       | Moderate                  |
|                          | [ Compression TGLs = 3-1 ] |   |                           |
| * Heart                  |                            | Cardiomyopathy                                    | Moderate                  |
| * Kidney                 |                            | Inflammation<br>Nephropathy                       | Chronic, Mild<br>Moderate |
| * Liver                  |                            | Basophilic Focus                                  |                           |
|                          | Bile Duct                  | Hyperplasia                                       | Minimal                   |
| * Lung                   |                            | Metaplasia  | Osseous, Minimal          |
| * Lymph Node, Mesenteric |                            | Hyperplasia                                       | Lymphoid, Mild            |
| * Mammary Gland          |                            | Hyperplasia                                       | Mild                      |
| * Nose                   |                            | Foreign Body                                      |                           |
|                          | Respirat Epith             | Hyperplasia                                       | Mild                      |
|                          |                            | Inflammation                                      | Chronic, Minimal          |
|                          | Olfactory Epi              | Metaplasia  | Respiratory, Minimal      |
| * Pancreas               |                            | Atrophy   | Minimal                   |
|                          |                            | Cyst  |                           |
| * Pituitary Gland        | Pars Distalis              | Adenoma   |                           |
|                          | [ Adenoma TGLs = 2-1 ]     |   |                           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 178

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112143

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Marked
	[ Hyperplasia TGLs = 1-21 ]		
	[ Ulcer TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Mild
	Artery	Inflammation	Chronic, Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 179

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Natural Death

**DAY ON TEST:** 713  
**HISTO:** 112144

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate
		[ Necrosis TGLs = 1-21 ]	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas		Atrophy	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Intermed	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 179

TMT: 7

SEX: Male

DAY ON TEST: 713

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112144

ORGAN AND ACCOUNTABLE SITE STATUS

[ Angiectasis	TGLs = 5-1 ]		
[ Angiectasis	TGLs = 5-1 ]		
[ Hyperplasia	TGLs = 5-1 ]		
* Prostate		Inflammation	Chronic, Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
[ Hemorrhage	TGLs = 4-22 ]		
[ Leukemia Mononuclear	TGLs = 3-6 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma	TGLs = 7-7 ]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
[ Adenoma	TGLs = 8-3 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 180

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112145

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Pancreas                 | * Parathyroid Gland       |
| * Preputial Gland           | * Salivary Glands        | * Seminal Vesicle          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |  |                        |                      |
|--|--|------------------------|----------------------|
| * Heart                                  |  | Cardiomyopathy         | Moderate             |
| * Kidney                                 |  | Inflammation           | Suppurative, Minimal |
|  |  | Nephropathy            | Minimal              |
| * Liver                                  |  | Basophilic Focus       |                      |
|  | Bile Duct                                    | Hyperplasia            | Minimal              |
|  | [ Mixed Cell Focus TGLs = 5-6 ]              | Mixed Cell Focus       |                      |
| * Lung                                   |  | Infiltration Cellular  | Histiocyte, Minimal  |
|  |  | Inflammation           | Chronic, Minimal     |
| Lymph Node                               |  |                        |                      |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |  |                        |                      |
| Mesentery                                |  | Mesothelioma Malignant |                      |
|  | [ Mesothelioma Malignant TGLs = 2-7-1,3-21 ] |                        |                      |
| * Nose                                   |  | Inflammation           | Chronic, Minimal     |
| * Pituitary Gland                        | Pars Distalis                                | Adenoma                |                      |
| * Prostate                               |  | Inflammation           | Chronic, Moderate    |
| * Skin                                   | Sebaceous GI                                 | Adenoma                |                      |
|  | SOA  | Hyperkeratosis         | Mild                 |
|  | Epidermis                                    | Hyperplasia            | Marked               |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 180

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112145

ORGAN AND ACCOUNTABLE SITE STATUS

	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Marked
	[ Adenoma TGLs = 1-26 ]		
	[ Hyperplasia TGLs = 6-23,7-24 ]		
	[ Ulcer TGLs = 6-23,7-24 ]		
* Spleen		Accessory Spleen	
		Hematopoietic Cell Proliferation	Moderate
	[ Accessory Spleen TGLs = 4-22 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 181

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112146

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Parathyroid Gland        | Peripheral Nerve          | * Preputial Gland           | * Salivary Glands        |
| * Seminal Vesicle          | Spinal Cord               | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testes                  | * Thymus                    | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                  |                                 |                                   |                    |
|------------------|---------------------------------|-----------------------------------|--------------------|
| * Adrenal Cortex |                                 | Accessory Adrenal Cortical Nodule |                    |
|                  |                                 | Degeneration                      | Fatty, Minimal     |
|                  |                                 | Hyperplasia                       | Focal, Minimal     |
| * Brain          |                                 | Compression                       | Mild               |
|                  | [ Compression TGLs = 5-1 ]      |                                   |                    |
| * Heart          |                                 | Cardiomyopathy                    | Mild               |
| * Kidney         |                                 | Nephropathy                       | Minimal            |
| * Liver          |                                 | Eosinophilic Focus                |                    |
| Lymph Node       |                                 | Hemorrhage                        | Moderate           |
|                  |                                 | Hyperplasia                       | Lymphoid, Moderate |
|                  | [ Hemorrhage TGLs = 3-3 ]       |                                   |                    |
|                  | [ Hyperplasia TGLs = 3-3 ]      |                                   |                    |
| * Mammary Gland  |                                 | Hyperplasia                       | Marked             |
|                  | [ Hyperplasia TGLs = 1-21,2-8 ] |                                   |                    |
| * Nose           |                                 | Foreign Body                      |                    |
|                  |                                 | Fungus                            |                    |
|                  | Respirat Epith                  | Hyperplasia                       | Mild               |
|                  |                                 | Inflammation                      | Chronic, Moderate  |
|                  | Respirat Epith                  | Metaplasia                        | Squamous, Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 181

TMT: 7

SEX: Male

DAY ON TEST: 632

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112146

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 6-1 ]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Epidermis	Hyperplasia	Moderate
		Ulcer	Marked
[ Hyperplasia TGLs = 4-22 ]			
[ Ulcer TGLs = 4-22 ]			
* Thyroid Gland	C Cell	Adenoma	
		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 182

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 569  
**HISTO:** 112147

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * Epididymis                |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Mammary Gland             |
| * Nose                   | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                                   |          |
|--------------------------|--|-----------------------------------|----------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |          |
| * Bone Marrow            |  | Leukemia Mononuclear              |          |
| * Kidney                 |  | Nephropathy                       | Minimal  |
| * Liver                  |  | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 4-6 ]      |                                   |          |
| * Lung                   |  | Leukemia Mononuclear              |          |
| Lymph Node               | Pancreatic                               | Leukemia Mononuclear              |          |
|                          | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                   |          |
|                          | [ Leukemia Mononuclear TGLs = 6-7 ]      |                                   |          |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 5-5 ]      |                                   |          |
| Oral Mucosa              |  | Squamous Cell Papilloma           |          |
|                          | [ Squamous Cell Papilloma TGLs = 8-9-1 ] |                                   |          |
| * Pancreas               |  | Leukemia Mononuclear              |          |
| * Skin                   | SOA                                      | Hyperkeratosis                    | Mild     |
|                          | Epidermis, SOA                           | Hyperplasia                       | Minimal  |
| * Spleen                 |  | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 2-6 ]      |                                   |          |
| * Stomach, Forestomach   |  | Edema                             | Marked   |
|                          | Epithelium                               | Hyperplasia                       | Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 182

TMT: 7

SEX: Male

DAY ON TEST: 569

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112147

ORGAN AND ACCOUNTABLE SITE STATUS

Ulcer

Marked

[ Edema TGLs = 7-4 ]

[ Hyperplasia TGLs = 7-4 ]

[ Ulcer TGLs = 7-4 ]

\* Testes

Interstit Cell

Adenoma

[ Adenoma TGLs = 3-7 ]

\* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Oral Mucosa Squamous Cell Papilloma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 183

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 657  
**HISTO:** 112148

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[ Hepatodiaphragmatic Nodule TGLs = 9-21 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin		Hyperkeratosis	Mild
	SOA	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Mild
	[ Hyperplasia TGLs = 10-22 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 183

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 657

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112148

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLs = 2-7 ]  
Germinal Epith

Atrophy

Minimal

---

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 184

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 670

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112149

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Brain                  | * Epididymis               | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Parathyroid Gland        | * Pituitary Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- |                          |          |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

**OBSERVATIONS**

- |   |             |  |                  |
|---|-------------|--|------------------|
| * Adrenal Cortex                                      |             | Degeneration                           | Fatty, Minimal   |
|   |             | Leukemia Mononuclear                   |                  |
| * Adrenal Medulla                                     |             | Hyperplasia                            | Minimal          |
| * Bone Marrow   |             | Leukemia Mononuclear                   |                  |
| * Harderian Gland                                     |             | Leukemia Mononuclear                   |                  |
| * Heart   |             | Cardiomyopathy                         | Mild             |
|   |             | Schwannoma Malignant                   |                  |
| Note: THE SCHWANNOMA APPEARS TO BE IN AN EARLY STAGE. |             |  |                  |
| * Kidney  |             | Nephropathy                            | Moderate         |
| * Liver   |             | Hepatocellular Adenoma                 | Multiple         |
|   | Bile Duct   | Hyperplasia                            | Moderate         |
|   |             | Leukemia Mononuclear                   |                  |
| Note: HEPATOCELLULAR ADENOMAS ARE ON SLIDES 6 AND 21. |             |  |                  |
|   |             | [ Hepatocellular Adenoma TGLs = 5-21 ] |                  |
|   |             | [ Hyperplasia TGLs = 4-6 ]             |                  |
|   |             | [ Leukemia Mononuclear TGLs = 4-6 ]    |                  |
| * Lung  |             | Infiltration Cellular                  | Histiocyte, Mild |
|   |             | Leukemia Mononuclear                   |                  |
| Lymph Node  | Mediastinal | Leukemia Mononuclear                   |                  |
| * Nose  |             | Foreign Body                           |                  |
|   |             | Fungus                                 |                  |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 184

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 670

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112149

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 6-22,7-23 ]		
	[ Ulcer TGLs = 6-22,7-23 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Stomach, Forestomach		Edema	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Minimal
	[ Adenoma TGLs = 1-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 185

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112150

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Nose                   | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Salivary Glands        | * Seminal Vesicle          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**OBSERVATIONS**

- |                          |  |                                   |          |
|--------------------------|--|-----------------------------------|----------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |          |
|                          |  | Leukemia Mononuclear              |          |
| * Adrenal Medulla        |  | Hyperplasia                       | Mild     |
|                          |  | Pheochromocytoma Benign           |          |
| * Bone Marrow            |  | Leukemia Mononuclear              |          |
| * Heart                  |  | Cardiomyopathy                    | Mild     |
| * Kidney                 |  | Leukemia Mononuclear              |          |
|                          |  | Nephropathy                       | Minimal  |
| * Liver                  |  | Hepatodiaphragmatic Nodule        |          |
|                          | Bile Duct                                  | Hyperplasia                       | Moderate |
|                          |  | Leukemia Mononuclear              |          |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 6-22 ] |                                   |          |
| * Lung                   |  | Leukemia Mononuclear              |          |
| Lymph Node               | Mediastinal                                | Leukemia Mononuclear              |          |
|                          | Pancreatic                                 | Leukemia Mononuclear              |          |
|                          | Deep Cervical                              | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 8-3 ]        |                                   |          |
|                          | [ Leukemia Mononuclear TGLs = 3-7 ]        |                                   |          |
|                          | [ Leukemia Mononuclear TGLs = 9-24 ]       |                                   |          |
| * Lymph Node, Mesenteric |  | Ectasia                           | Moderate |
|                          |  | Leukemia Mononuclear              |          |
| * Mammary Gland          |  | Hyperplasia                       | Mild     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 185

TMT: 7

SEX: Male

DAY ON TEST: 704

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112150

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Prostate		Inflammation	Chronic, Mild
	[ Inflammation TGLs = 5-7-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLs = 2-7 ]		
Tissue NOS		Chemodectoma Benign	
	[ Chemodectoma Benign TGLs = 7-23 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 186

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112151

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Brain                  |
| * Epididymis               | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Stomach, Glandular        | * Thymus                 |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- |             |                          |
|-------------|--------------------------|
| * Esophagus | * Lymph Node, Mandibular |
|-------------|--------------------------|

**OBSERVATIONS**

- |  |                |                      |                   |
|--|----------------|----------------------|-------------------|
| * Bone Marrow                            |                | Leukemia Mononuclear |                   |
| * Heart                                  |                | Cardiomyopathy       | Moderate          |
| * Kidney                                 |                | Inflammation         | Chronic, Mild     |
|  |                | Nephropathy          | Moderate          |
| * Liver                                  |                | Basophilic Focus     |                   |
|  |                | Clear Cell Focus     |                   |
|  | Bile Duct      | Hyperplasia          | Minimal           |
|  |                | Leukemia Mononuclear |                   |
|  |                | Mixed Cell Focus     |                   |
| * Lung                                   | Alveolar Epith | Hyperplasia          | Minimal           |
| Lymph Node                               |                |                      |                   |
| Note: LYMPH NODE, MEDIASTINAL - MISSING. |                |                      |                   |
| * Lymph Node, Mesenteric                 |                | Leukemia Mononuclear |                   |
| * Mammary Gland                          |                | Hyperplasia          | Mild              |
| * Nose                                   |                | Foreign Body         |                   |
|  |                | Fungus               |                   |
|  | Respirat Epith | Hyperplasia          | Mild              |
|  |                | Inflammation         | Chronic, Moderate |
|  | Respirat Epith | Metaplasia           | Squamous, Mild    |
|  | Olfactory Epi  | Metaplasia           | Respiratory, Mild |
| * Pancreas                               |                | Atrophy              | Minimal           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 186

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112151

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
[ Adenoma TGLs = 4-1 ]			
* Prostate		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
[ Basal Cell Adenoma TGLs = 1-21 ]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[ Fibrosis TGLs = 3-22 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
[ Hyperplasia TGLs = 5-23 ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[ Adenoma TGLs = 2-7 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 187

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112152

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lung                    | * Pancreas                  | * Parathyroid Gland      |
| Peripheral Nerve           | * Salivary Glands         | * Seminal Vesicle           | Spinal Cord              |
| * Stomach, Glandular       | * Thymus                  | * Trachea                   | * Urinary Bladder        |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                               |               |                      |                    |
|-------------------------------|---------------|----------------------|--------------------|
| * Adrenal Cortex              |               | Degeneration         | Fatty, Minimal     |
| * Brain                       |               | Compression          | Moderate           |
| [ Compression TGLs = 9-1 ]    |               |                      |                    |
| * Heart                       |               | Cardiomyopathy       | Mild               |
| * Islets, Pancreatic          |               | Hyperplasia          | Minimal            |
| * Kidney                      |               | Nephropathy          | Mild               |
| * Liver                       |               | Basophilic Focus     |                    |
|                               | Bile Duct     | Hyperplasia          | Minimal            |
|                               |               | Leukemia Mononuclear |                    |
| Lymph Node                    | Mediastinal   | Hyperplasia          | Lymphoid, Moderate |
| [ Hyperplasia TGLs = 3-21 ]   |               |                      |                    |
| * Lymph Node, Mesenteric      |               | Hyperplasia          | Lymphoid, Mild     |
| * Mammary Gland               |               | Hyperplasia          | Marked             |
| [ Hyperplasia TGLs = 1-8 ]    |               |                      |                    |
| * Nose                        |               | Foreign Body         |                    |
|                               |               | Inflammation         | Chronic, Minimal   |
| * Pituitary Gland             | Pars Distalis | Adenoma              |                    |
| [ Adenoma TGLs = 8-1 ]        |               |                      |                    |
| * Preputial Gland             |               | Inflammation         | Chronic, Mild      |
| * Prostate                    |               | Inflammation         | Chronic, Moderate  |
| [ Inflammation TGLs = 2-7-1 ] |               |                      |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 187

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 667

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112152

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Fibrosis	Moderate
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: MONONUCLEAR LEUKEMIA APPEARS TO BE IN AN EARLY STAGE.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 188

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112153

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Pancreas               | * Parathyroid Gland        | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**OBSERVATIONS**

- |                          |                                     |                       |                              |
|--------------------------|-------------------------------------|-----------------------|------------------------------|
| * Adrenal Cortex         |                                     | Hypertrophy           | Focal, Mild                  |
| * Adrenal Medulla        |                                     | Leukemia Mononuclear  |                              |
| * Bone Marrow            |                                     | Leukemia Mononuclear  |                              |
| * Brain                  |                                     | Carcinoma             | Metastatic (Pituitary Gland) |
|                          | [ Carcinoma TGLs = 7-1 ]            |                       |                              |
| * Heart                  |                                     | Cardiomyopathy        | Mild                         |
| * Kidney                 |                                     | Nephropathy           | Minimal                      |
| * Liver                  | Bile Duct                           | Hyperplasia           | Mild                         |
|                          |                                     | Leukemia Mononuclear  |                              |
|                          | [ Hyperplasia TGLs = 5-6 ]          |                       |                              |
|                          | [ Leukemia Mononuclear TGLs = 5-6 ] |                       |                              |
| * Lung                   |                                     | Infiltration Cellular | Histiocyte, Minimal          |
|                          |                                     | Leukemia Mononuclear  |                              |
| Lymph Node               | Mediastinal                         | Leukemia Mononuclear  |                              |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear  |                              |
| * Mammary Gland          |                                     | Hyperplasia           | Mild                         |
| * Nose                   |                                     | Foreign Body          |                              |
|                          |                                     | Fungus                |                              |
|                          | Respirat Epith                      | Hyperplasia           | Mild                         |
|                          |                                     | Inflammation          | Chronic, Moderate            |
|                          | Respirat Epith                      | Metaplasia            | Squamous, Mild               |
|                          | Olfactory Epi                       | Metaplasia            | Respiratory, Mild            |
| * Pituitary Gland        | Pars Distalis                       | Adenoma               |                              |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 188

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112153

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Pars Intermed	Angiectasis	Mild
	Pars Distalis	Carcinoma	
	[ Adenoma TGLs = 8-1 ]		
	[ Carcinoma TGLs = 8-1 ]		
* Preputial Gland		Leukemia Mononuclear	
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 6-21 ]		
	[ Ulcer TGLs = 6-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6 ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 4-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 189

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 667  
**HISTO:** 112154

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver                   | * Parathyroid Gland         |
| * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         | * Stomach, Forestomach      |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                               |                |                       |                     |
|-------------------------------|----------------|-----------------------|---------------------|
| * Adrenal Cortex              |                | Degeneration          | Fatty, Minimal      |
|                               |                | Hypertrophy           | Focal, Mild         |
| * Heart                       |                | Cardiomyopathy        | Moderate            |
| * Islets, Pancreatic          |                | Adenoma               |                     |
| * Kidney                      |                | Nephropathy           | Minimal             |
| * Lung                        |                | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node                    | Mediastinal    | Hyperplasia           | Lymphoid, Moderate  |
| [ Hyperplasia TGLs = 5-3 ]    |                |                       |                     |
| * Lymph Node, Mesenteric      |                | Hemorrhage            | Minimal             |
|                               |                | Hyperplasia           | Lymphoid, Mild      |
| [ Hemorrhage TGLs = 4-5 ]     |                |                       |                     |
| * Mammary Gland               |                | Hyperplasia           | Moderate            |
| [ Hyperplasia TGLs = 1-8 ]    |                |                       |                     |
| * Nose                        | Respirat Epith | Hyperplasia           | Minimal             |
|                               |                | Inflammation          | Chronic, Minimal    |
| * Pancreas                    |                | Atrophy               | Marked              |
| * Pituitary Gland             | Pars Distalis  | Adenoma               |                     |
| [ Adenoma TGLs = 6-1 ]        |                |                       |                     |
| * Prostate                    |                | Inflammation          | Chronic, Moderate   |
| [ Inflammation TGLs = 3-7-1 ] |                |                       |                     |
| * Skin                        |                | Fibroma               |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 189

TMT: 7

SEX: Male

DAY ON TEST: 667

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112154

ORGAN AND ACCOUNTABLE SITE STATUS

[ Fibroma TGLs = 2-21 ]	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular	Glands	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLs = 7-7 ]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH - Skin Fibroma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 190

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 694

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112155

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Spleen                 | * Thymus                   |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                         |                    |
|--------------------------|---|-------------------------|--------------------|
| * Adrenal Cortex         |   | Degeneration            | Fatty, Moderate    |
| * Adrenal Medulla        |   | Pheochromocytoma Benign | Multiple           |
|                          | [ Pheochromocytoma Benign TGLs = 3-10 ] |                         |                    |
| * Brain                  |   | Compression             | Moderate           |
|                          | [ Compression TGLs = 9-1 ]              |                         |                    |
| * Heart                  |   | Cardiomyopathy          | Moderate           |
|                          |   | Thrombosis              | Mild               |
| * Kidney                 |   | Nephropathy             | Marked             |
|                          | [ Nephropathy TGLs = 5-5 ]              |                         |                    |
| * Liver                  |   | Eosinophilic Focus      |                    |
|                          | Bile Duct                               | Hyperplasia             | Minimal            |
|                          |   | Mixed Cell Focus        |                    |
|                          | [ Eosinophilic Focus TGLs = 12-23 ]     |                         |                    |
| * Lung                   |   | Hyperplasia             | Minimal            |
| Lymph Node               | Alveolar Epith                          | Hemorrhage              | Moderate           |
|                          | Mediastinal                             | Hyperplasia             | Lymphoid, Moderate |
|                          | Mediastinal                             |                         |                    |
|                          | [ Hemorrhage TGLs = 7-3 ]               |                         |                    |
|                          | [ Hyperplasia TGLs = 7-3 ]              |                         |                    |
| * Lymph Node, Mesenteric |   | Hemorrhage              | Mild               |
| * Mammary Gland          |   | Hyperplasia             | Marked             |
|                          | [ Hyperplasia TGLs = 2-8 ]              |                         |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 190

TMT: 7

SEX: Male

DAY ON TEST: 694

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112155

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [ Necrosis TGLs = 4-22 ]	Fat	Necrosis	Marked
* Nose		Foreign Body	
* Pancreas	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland [ Adenoma TGLs = 8-1 ]	Acinus	Cytoplasmic Alteration	Moderate
	Pars Distalis	Adenoma	
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	Control Epider	Hyperplasia	Minimal
		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1-21 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 11-4 ]		
	[ Ulcer TGLs = 11-4 ]		
* Stomach, Glandular	Epithelium	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 11-4 ]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

- Stomach, Forestomach Ulcer

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 191

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112156

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                      |                        |                             |                            |
|----------------------|------------------------|-----------------------------|----------------------------|
| * Bone               | * Brain                | * Epididymis                | * Esophagus                |
| * Eye                | * Harderian Gland      | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Nose                 | * Parathyroid Gland         | * Salivary Glands          |
| * Seminal Vesicle    | * Stomach, Forestomach | * Thymus                    | * Thyroid Gland            |
| * Trachea            | * Urinary Bladder      |                             |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                           |                                       |                                   |             |
|---------------------------|---------------------------------------|-----------------------------------|-------------|
| * Adrenal Cortex          |                                       | Accessory Adrenal Cortical Nodule |             |
|                           |                                       | Leukemia Mononuclear              |             |
| * Adrenal Medulla         |                                       | Leukemia Mononuclear              |             |
|                           |                                       | Pheochromocytoma Benign           | Multiple    |
| * Bone Marrow             |                                       | Leukemia Mononuclear              |             |
| * Heart                   |                                       | Leukemia Mononuclear              |             |
|                           | [ Leukemia Mononuclear TGLs = 16-12 ] |                                   |             |
| * Intestine Large, Cecum  |                                       | Edema                             | Marked      |
|                           |                                       | Leukemia Mononuclear              |             |
|                           | [ Edema TGLs = 17-4 ]                 |                                   |             |
|                           | [ Leukemia Mononuclear TGLs = 17-4 ]  |                                   |             |
| * Intestine Large, Colon  |                                       | Edema                             | Moderate    |
|                           |                                       | Leukemia Mononuclear              |             |
| * Intestine Large, Rectum |                                       | Edema                             | Moderate    |
| * Intestine Small, Ileum  |                                       | Hemorrhage                        | Mild        |
|                           | [ Hemorrhage TGLs = 15-4 ]            |                                   |             |
| * Kidney                  |                                       | Leukemia Mononuclear              |             |
|                           |                                       | Nephropathy                       | Moderate    |
|                           | [ Leukemia Mononuclear TGLs = 10-5 ]  |                                   |             |
| * Liver                   | Bile Duct                             | Hyperplasia                       | Moderate    |
|                           | Hepatocyte                            | Hyperplasia                       | Focal, Mild |
|                           |                                       | Leukemia Mononuclear              |             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 191

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 716

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112156

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lung	Centrilobular	Necrosis	Mild
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 14-3 ]		
	[ Leukemia Mononuclear TGLs = 6-23 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 12-5 ]		
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Control Epider	Hyperplasia	Minimal
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		Necrosis	Moderate
	[ Leukemia Mononuclear TGLs = 7-6,8-21 ]		
	[ Necrosis TGLs = 18-22 ]		
* Stomach, Glandular		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 13-4 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 192

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112157

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Retina	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 8-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 7-3 ]		
	[ Leukemia Mononuclear TGLs = 4-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 5-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 192

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112157

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Preputial Gland		Leukemia Mononuclear Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 6-7-1 ]		
* Seminal Vesicle		Leukemia Mononuclear	
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
	[ Hyperplasia TGLs = 9-21 ]		
	[ Inflammation TGLs = 9-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 2-7 ]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 193

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112158

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Intestine Large, Rectum

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Eye		Cataract	Minimal
	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[ Leukemia Mononuclear TGLs = 3-5 ]		
	[ Nephropathy TGLs = 3-5 ]		
* Liver		Clear Cell Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Ectasia	Marked
	Mediastinal	Leukemia Mononuclear	
	[ Ectasia TGLs = 4-3 ]		
	[ Leukemia Mononuclear TGLs = 4-3 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 193

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112158

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Ectasia	Mild
		Leukemia Mononuclear	
* Nose		Fungus	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular		Edema	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLs = 2-7 ]		
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 194

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 522

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112159

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                          |                           |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Bone                   | * Bone Marrow             |
| * Epididymis                | * Esophagus                | * Eye                    | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                  |
| * Liver                     | * Lymph Node, Mesenteric   | * Nose                   | * Parathyroid Gland       |
| * Preputial Gland           | * Salivary Glands          | * Seminal Vesicle        | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                   | * Thymus                 | * Trachea                 |
| * Urinary Bladder           |                            |                          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Ileum

**OBSERVATIONS**

- |                   |  |                                  |                   |
|-------------------|--|----------------------------------|-------------------|
| * Brain           |  | Compression                      | Mild              |
|                   | [ Compression TGLs = 3-1 ]               |                                  |                   |
| * Lung            |  | Metaplasia                       | Osseous, Minimal  |
| Lymph Node        |  |                                  |                   |
|                   | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                                  |                   |
| * Mammary Gland   |  | Hyperplasia                      | Mild              |
| * Pancreas        |  | Atrophy                          | Moderate          |
| * Pituitary Gland | Pars Distalis                            | Adenoma                          |                   |
|                   | [ Adenoma TGLs = 4-1 ]                   |                                  |                   |
| * Prostate        |  | Inflammation                     | Chronic, Moderate |
| * Skin            | SOA                                      | Hyperkeratosis                   | Mild              |
|                   | Epidermis, SOA                           | Hyperplasia                      | Minimal           |
| * Spleen          |  | Hematopoietic Cell Proliferation | Mild              |
|                   |  | Pigmentation                     | Moderate          |
| * Thyroid Gland   | C Cell                                   | Adenoma                          |                   |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 195

TMT: 7

SEX: Male

DAY ON TEST: 730

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia	Fatty, Minimal Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
Coagulating Gland [ Cyst TGLs = 5-7 ]		Cyst	
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation Nephropathy	Chronic, Mild Moderate
* Liver		Basophilic Focus Clear Cell Focus	
	Bile Duct	Hyperplasia Mixed Cell Focus	Minimal
* Lung		Inflammation	Chronic, Minimal
Lymph Node Note: LYMPH NODE, MEDIASTINAL - MISSING.			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland [ Hyperplasia TGLs = 1-8 ]		Hyperplasia	Mild
Mesentery		Mesothelioma Malignant	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 195

TMT: 7

SEX: Male

DAY ON TEST: 730

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112160

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 21.

[ Mesothelioma Malignant TGLs = 4-21 ]

\* Pituitary Gland

Pars Distalis

Adenoma

[ Adenoma TGLs = 6-1 ]

\* Preputial Gland

Adenoma

Inflammation

Chronic, Mild

[ Adenoma TGLs = 2-8 ]

\* Prostate

Inflammation

Chronic, Mild

\* Skin

SOA

Hyperkeratosis

Mild

Control Epider

Hyperplasia

Minimal

\* Spleen

Hematopoietic Cell Proliferation

Minimal

\* Testes

Bilateral, Interstit Cell

Adenoma

Germinal Epith

Atrophy

Mild

[ Adenoma TGLs = 3-7 ]

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 196

**TMT:** 7  
**DOSE:** 90 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 731  
**HISTO:** 112161

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    |
| * Pancreas               | * Parathyroid Gland        | * Preputial Gland         | * Salivary Glands           |
| * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                            |                |                                   |                     |
|----------------------------|----------------|-----------------------------------|---------------------|
| * Adrenal Cortex           |                | Accessory Adrenal Cortical Nodule |                     |
|                            |                | Hyperplasia                       | Focal, Minimal      |
| * Heart                    |                | Cardiomyopathy                    | Mild                |
| * Kidney                   |                | Inflammation                      | Chronic, Mild       |
|                            |                | Nephropathy                       | Mild                |
| * Liver                    |                | Basophilic Focus                  |                     |
|                            |                | Clear Cell Focus                  |                     |
|                            | Bile Duct      | Hyperplasia                       | Minimal             |
| * Lung                     |                | Infiltration Cellular             | Histiocyte, Minimal |
|                            |                | Inflammation                      | Chronic, Mild       |
| Lymph Node                 | Pancreatic     | Hyperplasia                       | Lymphoid, Mild      |
| [ Hyperplasia TGLs = 3-7 ] |                |                                   |                     |
| * Mammary Gland            |                | Hyperplasia                       | Mild                |
| [ Hyperplasia TGLs = 1-8 ] |                |                                   |                     |
| * Nose                     |                | Fungus                            |                     |
|                            | Respirat Epith | Hyperplasia                       | Mild                |
|                            |                | Inflammation                      | Chronic, Moderate   |
|                            | Respirat Epith | Metaplasia                        | Squamous, Moderate  |
|                            | Olfactory Epi  | Metaplasia                        | Respiratory, Mild   |
| * Pituitary Gland          | Pars Distalis  | Adenoma                           |                     |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 196

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112161

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Adenoma TGLs = 6-1 ]		
* Prostate		Inflammation	Chronic, Minimal
* Skin		Cyst Epithelial Inclusion	
	SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
		Ulcer	Marked
	[ Cyst Epithelial Inclusion TGLs = 7-23 ]		
	[ Hyperplasia TGLs = 4-21,5-22 ]		
	[ Ulcer TGLs = 4-21,5-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLs = 2-7 ]		
* Thymus		Thymoma Benign	



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 197

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112162

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Parathyroid Gland         |
| * Salivary Glands        | * Seminal Vesicle          | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**OBSERVATIONS**

- |                          |  |                       |                      |
|--------------------------|--|-----------------------|----------------------|
| * Brain                  |  | Compression           | Moderate             |
|                          | [ Compression TGLs = 7-1 ]               |                       |                      |
| * Heart                  |  | Cardiomyopathy        | Mild                 |
| * Islets, Pancreatic     |  | Carcinoma             |                      |
|                          | [ Carcinoma TGLs = 5-7 ]                 |                       |                      |
| * Kidney                 |  | Nephropathy           | Moderate             |
| * Liver                  |  | Basophilic Focus      |                      |
|                          | Bile Duct                                | Hyperplasia           | Minimal              |
| * Lung                   |  | Infiltration Cellular | Histiocyte, Minimal  |
| Lymph Node               |  |                       |                      |
|                          | Note: LYMPH NODE, MEDIASTINAL - MISSING. |                       |                      |
| * Lymph Node, Mandibular |  | Ectasia               | Mild                 |
|                          |  | Hyperplasia           | Lymphoid, Mild       |
| * Mammary Gland          |  | Hyperplasia           | Moderate             |
|                          | [ Hyperplasia TGLs = 2-8 ]               |                       |                      |
| * Nose                   |  | Foreign Body          |                      |
|                          |  | Fungus                |                      |
|                          | Respirat Epith                           | Hyperplasia           | Moderate             |
|                          |  | Inflammation          | Chronic, Marked      |
|                          | Respirat Epith                           | Metaplasia            | Squamous, Minimal    |
|                          | Olfactory Epi                            | Metaplasia            | Respiratory, Minimal |
| * Pancreas               |  | Atrophy               | Mild                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 197

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112162

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 6-1 ]	Acinus Pars Distalis	Cytoplasmic Alteration Adenoma	Mild
* Preputial Gland [ Carcinoma TGLs = 1-21 ]		Carcinoma	
* Prostate		Hyperplasia Inflammation	Marked Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Moderate
* Testes [ Adenoma TGLs = 4-7 ]	Interstit Cell Germinal Epith	Adenoma Atrophy	Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 198

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112163

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis             |
| * Esophagus                 | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle        |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland          |
| * Trachea                   | * Urinary Bladder        |                            |                          |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |                          |             |                                     |         |
|--------------------------|-------------|-------------------------------------|---------|
| * Adrenal Cortex         |             | Accessory Adrenal Cortical Nodule   |         |
| * Bone Marrow            |             | Leukemia Mononuclear                |         |
| * Eye                    | Retina      | Degeneration                        | Minimal |
| * Heart                  |             | Cardiomyopathy                      | Minimal |
| * Kidney                 |             | Nephropathy                         | Minimal |
| * Liver                  |             | Basophilic Focus                    |         |
|                          | Bile Duct   | Hepatocellular Adenoma              |         |
|                          |             | Hyperplasia                         | Mild    |
|                          |             | Leukemia Mononuclear                |         |
|                          |             | [ Hyperplasia TGLs = 5-6 ]          |         |
|                          |             | [ Leukemia Mononuclear TGLs = 5-6 ] |         |
| * Lung                   |             | Leukemia Mononuclear                |         |
| Lymph Node               | Pancreatic  | Ectasia                             | Marked  |
|                          | Mediastinal | Leukemia Mononuclear                |         |
|                          |             | [ Ectasia TGLs = 4-7 ]              |         |
| * Lymph Node, Mesenteric |             | Ectasia                             | Mild    |
|                          |             | Leukemia Mononuclear                |         |
| * Mammary Gland          |             | Hyperplasia                         | Mild    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 198

TMT: 7

SEX: Male

DAY ON TEST: 732

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112163

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Hyperplasia TGLs = 1-8 ]		
* Nose		Foreign Body	
		Fungus	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Angiectasis TGLs = 8-1 ]		
	[ Hyperplasia TGLs = 8-1 ]		
* Prostate		Inflammation	Chronic, Minimal
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Minimal
		Squamous Cell Papilloma	
		Ulcer	Marked
	[ Hyperplasia TGLs = 6-21 ]		
	[ Squamous Cell Papilloma TGLs = 7-22 ]		
	[ Ulcer TGLs = 6-21 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 199

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 468

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112164

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[ Cataract TGLs = 5-44 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Dilatation	Moderate
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
	[ Dilatation TGLs = 2-5 ]		
	[ Nephropathy TGLs = 2-5 ]		
	[ Pigmentation TGLs = 2-5 ]		
* Liver	Hematopoietic Cell Proliferation TGLs = 3-6 ]	Hematopoietic Cell Proliferation	Minimal
* Lung		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Salivary Glands		Schwannoma Malignant	Metastatic (Skin)
* Skin		Schwannoma Malignant	
	[ Schwannoma Malignant TGLs = 4-21 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 199

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 468

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112164

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Ulcer	Moderate
* Stomach, Glandular	Ulcer	Mild

---

PRIMARY CAUSE OF DEATH - Skin Schwannoma Malignant  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

**ANIMAL NUM:** 200

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 659

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112165

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex	Degeneration	Fatty, Mild
* Adrenal Medulla	Hyperplasia	Mild
* Bone Marrow	Leukemia Mononuclear	
	Myelofibrosis	Moderate
Note: THE MYELOFIBROSIS APPEARS TO UNDERGOING OSSIFICATION IN SOME AREAS.		
* Heart	Cardiomyopathy	Moderate
* Islets, Pancreatic	Adenoma	
	Carcinoma	
Note: ISLET ADENOMA IS PRESENT ON SLIDE 22.		
[ Carcinoma TGLs = 4-7 ]		
* Kidney	Nephropathy	Minimal
* Liver	Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia
		Leukemia Mononuclear
	Centrilobular	Necrosis
	Kupffer Cell	Pigmentation
	[ Hepatodiaphragmatic Nodule TGLs = 6-21 ]	
	[ Leukemia Mononuclear TGLs = 7-6 ]	
* Lung	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear
Note: LYMPH NODE, MEDIASTINAL - MISSING.		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 200

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 659

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112165

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 5-22 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
	[ Adenoma TGLs = 8-1 ]		
* Prostate		Inflammation	Chronic, Moderate
* Skin	SOA	Hyperkeratosis	Marked
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6 ]		
* Stomach, Glandular		Erosion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLs = 1-7 ]		
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 201

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112166

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Pancreas                  | * Parathyroid Gland      |
| * Salivary Glands          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Trachea                 | * Urinary Bladder           | * Uterus                 |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                 |                                  |                    |
|--------------------------|---------------------------------|----------------------------------|--------------------|
| * Adrenal Cortex         |                                 | Degeneration                     | Fatty, Minimal     |
|                          |                                 | Hypertrophy                      | Focal, Minimal     |
| * Clitoral Gland         |                                 | Inflammation                     | Chronic, Mild      |
| * Heart                  |                                 | Cardiomyopathy                   | Mild               |
| * Kidney                 |                                 | Nephropathy                      | Minimal            |
| * Liver                  |                                 | Basophilic Focus                 |                    |
|                          | [ Basophilic Focus TGLs = 3-6 ] |                                  |                    |
| * Lung                   | Alveolar Epith                  | Hyperplasia                      | Minimal            |
| * Lymph Node, Mesenteric |                                 | Hyperplasia                      | Lymphoid, Moderate |
| * Mammary Gland          |                                 | Hyperplasia                      | Mild               |
|                          | [ Hyperplasia TGLs = 1-8 ]      |                                  |                    |
| * Nose                   | Respirat Epith                  | Hyperplasia                      | Minimal            |
|                          |                                 | Inflammation                     | Chronic, Minimal   |
| * Ovary                  |                                 | Cyst                             |                    |
|                          | [ Cyst TGLs = 2-7 ]             |                                  |                    |
| * Pituitary Gland        | Pars Distalis                   | Hyperplasia                      | Focal, Mild        |
| * Spleen                 |                                 | Hematopoietic Cell Proliferation | Mild               |
| * Thyroid Gland          | C Cell                          | Adenoma                          |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 202

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 675  
**HISTO:** 112167

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Brain		Compression	Moderate
		Hemorrhage	Moderate
	[ Compression TGLs = 6-1 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
	[ Hemorrhage TGLs = 3-22 ]		
	[ Pigmentation TGLs = 3-22 ]		
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 2-21 ]		
* Ovary	Interstit Cell	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 202

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 675

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 112167

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Mild

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 203

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112168

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Hyperplasia Infiltration Cellular	Moderate Histiocyte, Mild
* Clitoral Gland [ Cyst TGLs = 3-22 ]		Cyst	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Moderate
* Lung [ Alveolar/Bronchiolar Adenoma TGLs = 4-23 ]		Alveolar/Bronchiolar Adenoma Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland [ Fibroadenoma TGLs = 1-21,1-21-1 ] [ Hyperplasia TGLs = 2-8 ]		Fibroadenoma Hyperplasia	Moderate
* Pituitary Gland [ Angiectasis TGLs = 6-1 ]	Pars Distalis Pars Distalis	Angiectasis Cyst	Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

---

**ANIMAL NUM:** 203

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112168

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

Follicular Cel

Adenoma

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 204

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112169

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    |
| * Nose                   | * Ovary                    | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         | * Uterus                    |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                  |                                     |                                   |                 |
|------------------|-------------------------------------|-----------------------------------|-----------------|
| * Adrenal Cortex |                                     | Accessory Adrenal Cortical Nodule |                 |
|                  |                                     | Hypertrophy                       | Focal, Moderate |
| * Heart          |                                     | Cardiomyopathy                    | Mild            |
| * Kidney         |                                     | Nephropathy                       | Minimal         |
| * Liver          |                                     | Leukemia Mononuclear              |                 |
|                  | [ Leukemia Mononuclear TGLs = 2-6 ] |                                   |                 |
| * Lung           |                                     | Inflammation                      | Chronic, Mild   |
|                  |                                     | Leukemia Mononuclear              |                 |
|                  |                                     | Pigmentation                      | Mild            |
| * Mammary Gland  |                                     | Hyperplasia                       | Mild            |
|                  | [ Hyperplasia TGLs = 1-8 ]          |                                   |                 |
| * Pancreas       |                                     | Atrophy                           | Mild            |
| * Skin           | Epidermis                           | Hyperplasia                       | Marked          |
|                  |                                     | Inflammation                      | Chronic, Marked |
|                  | [ Hyperplasia TGLs = 3-21 ]         |                                   |                 |
|                  | [ Inflammation TGLs = 3-21 ]        |                                   |                 |
| * Spleen         |                                     | Leukemia Mononuclear              |                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 205

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 629  
HISTO: 112170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Kidney	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
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OBSERVATIONS

* Brain	Compression	Moderate
	Hemorrhage	Minimal
[ Compression TGLs = 3-1 ]		
* Heart	Cardiomyopathy	Minimal
* Liver	Basophilic Focus	
* Mammary Gland	Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma
[ Adenoma TGLs = 4-1 ]		
* Spleen	Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 206

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Mild
	Hypertrophy	Focal, Mild
* Bone Marrow	Leukemia Mononuclear	
* Brain	Compression	Mild
[ Compression TGLs = 10-1 ]		
* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	
	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 8-6 ]		
* Lung	Hemorrhage	Mild
	Infiltration Cellular	Histiocyte, Minimal
	Leukemia Mononuclear	
[ Hemorrhage TGLs = 9-2 ]		
[ Infiltration Cellular TGLs = 9-2 ]		
[ Leukemia Mononuclear TGLs = 9-2 ]		
Lymph Node	Pancreatic	Leukemia Mononuclear
[ Leukemia Mononuclear TGLs = 5-7 ]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
* Mammary Gland	Fibroadenoma	
	Hyperplasia	Marked

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 206

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112171

ORGAN AND ACCOUNTABLE SITE STATUS

[ Fibroadenoma TGLs = 2-21 ]			
[ Hyperplasia TGLs = 1-8 ]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[ Adenoma TGLs = 11-1 ]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 6-22,7-6,12-22 ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Marked
[ Hyperplasia TGLs = 4-23 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 207

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112172

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Esophagus               | * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                            |          |
|--------------------------|--|----------------------------|----------|
| * Bone Marrow            |  | Leukemia Mononuclear       |          |
| * Clitoral Gland         |  | Adenoma                    |          |
|                          | [ Adenoma TGLs = 2-8 ]                     |                            |          |
| * Harderian Gland        |  | Atrophy                    | Mild     |
| * Heart                  |  | Cardiomyopathy             | Mild     |
| * Kidney                 |  | Nephropathy                | Minimal  |
| * Liver                  |  | Basophilic Focus           |          |
|                          |  | Hepatodiaphragmatic Nodule |          |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 5-22 ] | Leukemia Mononuclear       |          |
| * Lung                   | Alveolar Epith                             | Hyperplasia                | Minimal  |
|                          |  | Leukemia Mononuclear       |          |
| Lymph Node               | Mediastinal                                | Leukemia Mononuclear       |          |
|                          | Mediastinal                                | Pigmentation               | Moderate |
|                          | [ Leukemia Mononuclear TGLs = 6-3 ]        |                            |          |
|                          | [ Pigmentation TGLs = 6-3 ]                |                            |          |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear       |          |
| * Mammary Gland          |  | Fibroadenoma               |          |
|                          |  | Hyperplasia                | Mild     |
|                          | [ Fibroadenoma TGLs = 3-21 ]               |                            |          |
|                          | [ Hyperplasia TGLs = 4-8 ]                 |                            |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 207

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112172

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	
* Skin	Epidermis	Hyperkeratosis	Marked
		Hyperplasia	Mild
	[ Hyperkeratosis TGLs = 1-23 ]		
	[ Hyperplasia TGLs = 1-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Moderate

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 208

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 710

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112173

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone                   | * Clitoral Gland           | * Esophagus               | * Harderian Gland           |
| * Heart                  | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Nose                   | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands        | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Uterus                   |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                                  |                 |
|--------------------------|---|----------------------------------|-----------------|
| * Adrenal Cortex         |   | Degeneration                     | Fatty, Moderate |
|                          |   | Leukemia Mononuclear             |                 |
| * Adrenal Medulla        |   | Hyperplasia                      | Mild            |
| * Bone Marrow            |   | Leukemia Mononuclear             |                 |
| * Brain                  |   | Hemorrhage                       | Mild            |
|                          |   | Necrosis                         | Mild            |
|                          | [ Hemorrhage TGLs = 18-1 ]                  |                                  |                 |
|                          | [ Necrosis TGLs = 18-1 ]                    |                                  |                 |
| * Eye                    | Retina                                      | Degeneration                     | Mild            |
| * Intestine Large, Cecum |   | Edema                            | Mild            |
| * Kidney                 |   | Nephropathy                      | Mild            |
|                          | [ Nephropathy TGLs = 9-5 ]                  |                                  |                 |
| * Liver                  |   | Hematopoietic Cell Proliferation | Mild            |
|                          |   | Hepatodiaphragmatic Nodule       |                 |
|                          | Kupffer Cell                                | Hyperplasia                      | Moderate        |
|                          |   | Leukemia Mononuclear             |                 |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 12-26 ] |                                  |                 |
| Lymph Node               | Mediastinal                                 | Leukemia Mononuclear             |                 |
|                          | Pancreatic                                  | Leukemia Mononuclear             |                 |
|                          | [ Leukemia Mononuclear TGLs = 13-3 ]        |                                  |                 |
|                          | [ Leukemia Mononuclear TGLs = 7-7 ]         |                                  |                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 208

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 710

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112173

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 8-5,11-25 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 2-21 ]		
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery		Hemorrhage	Moderate
		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
	[ Hemorrhage TGLs = 6-24 ]		
	[ Leukemia Mononuclear TGLs = 6-24 ]		
	[ Necrosis TGLs = 4-22,5-23 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		Necrosis	Marked
	[ Hematopoietic Cell Proliferation TGLs = 16-6 ]		
	[ Leukemia Mononuclear TGLs = 16-6 ]		
	[ Necrosis TGLs = 14-27,17-28 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
	[ Hyperplasia TGLs = 19-4 ]		
	[ Ulcer TGLs = 19-4 ]		
* Urinary Bladder		Hemorrhage	Moderate
	[ Hemorrhage TGLs = 3-8 ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 209

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 644  
HISTO: 112174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Brain		Compression	Moderate
	[ Compression TGLs = 4-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 2-21 ]		
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 210

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 736  
HISTO: 112175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Metaplasia	Lipocyte, Moderate
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 2-21,3-22,4-23,5-24 ]		
	[ Hyperplasia TGLs = 1-8 ]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
	[ Angiectasis TGLs = 7-1 ]		
	[ Hyperplasia TGLs = 7-1 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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**ANIMAL NUM:** 210

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112175

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild
[ Hyperplasia TGLs = 6-7 ]			

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 211

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112176

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Clitoral Gland		Carcinoma	
		Inflammation	Chronic, Mild
	[ Carcinoma TGLs = 1-21 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
	[ Inflammation TGLs = 4-5 ]		
	[ Nephropathy TGLs = 4-5 ]		
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 3-22 ]		
	[ Hyperplasia TGLs = 2-8 ]		
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	[ Cyst TGLs = 5-1 ]		
* Salivary Glands		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 211

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112176

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Cyst	
* Stomach, Forestomach	Epithelium	Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Hyperplasia	Minimal

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 212

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112177

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   |
| * Ovary                    | * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                             |                                  |                              |
|-------------------|-----------------------------|----------------------------------|------------------------------|
| * Adrenal Cortex  |                             | Degeneration                     | Fatty, Moderate              |
| * Brain           |                             | Carcinoma                        | Metastatic (Pituitary Gland) |
|                   |                             | Compression                      | Marked                       |
|                   | [ Compression TGLs = 4-1 ]  |                                  |                              |
| * Heart           |                             | Cardiomyopathy                   | Moderate                     |
| * Kidney          |                             | Nephropathy                      | Moderate                     |
| * Liver           |                             | Basophilic Focus                 |                              |
|                   |                             | Leukemia Mononuclear             |                              |
| * Lung            | Alveolar Epith              | Hyperplasia                      | Minimal                      |
| Lymph Node        | Mediastinal                 | Pigmentation                     | Moderate                     |
|                   | [ Pigmentation TGLs = 3-3 ] |                                  |                              |
| * Mammary Gland   |                             | Hyperplasia                      | Moderate                     |
|                   | [ Hyperplasia TGLs = 1-8 ]  |                                  |                              |
| Mesentery         | Fat                         | Necrosis                         | Moderate                     |
|                   | [ Necrosis TGLs = 2-21 ]    |                                  |                              |
| * Pancreas        |                             | Atrophy                          | Minimal                      |
| * Pituitary Gland | Pars Distalis               | Carcinoma                        |                              |
|                   | [ Carcinoma TGLs = 5-1 ]    |                                  |                              |
| * Skin            | Control                     | Hyperkeratosis                   | Minimal                      |
| * Spleen          |                             | Hematopoietic Cell Proliferation | Mild                         |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 212

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112177

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Pigmentation

Moderate

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 213

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112178

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Nose                     |
| * Pancreas                | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                     |  |                                  |                |
|---------------------|--|----------------------------------|----------------|
| * Kidney            |  | Nephropathy                      | Mild           |
| * Liver             |  | Angiectasis                      | Minimal        |
|                     |  | Basophilic Focus                 |                |
|                     |  | Eosinophilic Focus               |                |
| * Mammary Gland     |  | Fibroadenoma                     | Multiple       |
|                     |  | Hyperplasia                      | Moderate       |
|                     | [ Fibroadenoma TGLs = 1-21,2-22,3-23 ] |                                  |                |
|                     | [ Hyperplasia TGLs = 4-8 ]             |                                  |                |
| Mesentery           | Fat                                    | Necrosis                         | Mild           |
|                     | [ Necrosis TGLs = 6-24 ]               |                                  |                |
| * Ovary             |  | Cyst                             |                |
|                     | [ Cyst TGLs = 5-7 ]                    |                                  |                |
| * Parathyroid Gland |  | Adenoma                          |                |
| * Pituitary Gland   | Pars Distalis                          | Cyst                             |                |
|                     | Pars Distalis                          | Hyperplasia                      | Focal, Minimal |
|                     | [ Cyst TGLs = 7-1 ]                    |                                  |                |
| * Spleen            |  | Hematopoietic Cell Proliferation | Minimal        |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 214

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 112179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Trachea                 | * Urinary Bladder           |
| * Uterus                 |                            |                           |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                             |               |                       |                      |
|-----------------------------|---------------|-----------------------|----------------------|
| * Adrenal Cortex            |               | Adenoma               |                      |
| * Clitoral Gland            |               | Inflammation          | Chronic, Moderate    |
| [ Inflammation TGLs = 1-8 ] |               |                       |                      |
| * Islets, Pancreatic        |               | Adenoma               |                      |
| [ Adenoma TGLs = 3-7 ]      |               |                       |                      |
| * Kidney                    |               | Nephropathy           | Minimal              |
| * Liver                     |               | Basophilic Focus      |                      |
|                             |               | Clear Cell Focus      |                      |
|                             |               | Eosinophilic Focus    |                      |
|                             |               | Infiltration Cellular | Mixed Cell, Minimal  |
| * Lung                      |               | Pigmentation          | Minimal              |
| * Lymph Node, Mesenteric    |               | Hyperplasia           | Lymphoid, Moderate   |
| * Mammary Gland             |               | Hyperplasia           | Marked               |
| [ Hyperplasia TGLs = 2-8 ]  |               |                       |                      |
| * Nose                      |               | Inflammation          | Chronic, Mild        |
|                             | Olfactory Epi | Metaplasia            | Respiratory, Minimal |
| * Pituitary Gland           | Pars Distalis | Adenoma               |                      |
|                             | Pars Distalis | Cyst                  |                      |
| [ Adenoma TGLs = 4-1 ]      |               |                       |                      |
| * Skin                      | Control       | Hyperkeratosis        | Minimal              |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 214

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112179

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 215

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112180

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Nose                      |
| * Ovary                  | * Parathyroid Gland        | * Salivary Glands         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Trachea                 | * Urinary Bladder           |
| * Uterus                 |                            |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                     |                                   |                  |
|--------------------------|-------------------------------------|-----------------------------------|------------------|
| * Adrenal Cortex         |                                     | Accessory Adrenal Cortical Nodule |                  |
| * Brain                  |                                     | Compression                       | Mild             |
|                          | [ Compression TGLs = 7-1 ]          |                                   |                  |
| * Kidney                 |                                     | Nephropathy                       | Moderate         |
| * Liver                  |                                     | Basophilic Focus                  |                  |
|                          | [ Basophilic Focus TGLs = 3-6 ]     | Leukemia Mononuclear              |                  |
|                          | [ Leukemia Mononuclear TGLs = 3-6 ] |                                   |                  |
| * Lung                   |                                     | Inflammation                      | Chronic, Minimal |
| Lymph Node               | Mediastinal                         | Leukemia Mononuclear              |                  |
|                          | Mediastinal                         | Pigmentation                      | Moderate         |
|                          | [ Leukemia Mononuclear TGLs = 4-3 ] |                                   |                  |
|                          | [ Pigmentation TGLs = 4-3 ]         |                                   |                  |
| * Lymph Node, Mesenteric |                                     | Hyperplasia                       | Lymphoid, Mild   |
|                          |                                     | Pigmentation                      | Moderate         |
| * Mammary Gland          |                                     | Fibroadenoma                      |                  |
|                          |                                     | Hyperplasia                       | Moderate         |
|                          | [ Fibroadenoma TGLs = 1-21 ]        |                                   |                  |
|                          | [ Hyperplasia TGLs = 2-8 ]          |                                   |                  |
| * Pancreas               |                                     | Atrophy                           | Moderate         |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 215

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112180

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[ Adenoma TGLs = 6-1 ]			
* Skin	Epidermis	Hyperplasia	Marked
		Inflammation	Chronic, Moderate
[ Hyperplasia TGLs = 5-22 ]			
[ Inflammation TGLs = 5-22 ]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 216

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 112181

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Brain                  | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    |
| * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        | * Uterus                   |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |   |                                   |                     |
|-------------------|---|-----------------------------------|---------------------|
| * Adrenal Cortex  |   | Accessory Adrenal Cortical Nodule |                     |
| * Adrenal Medulla |   | Hyperplasia                       | Moderate            |
| * Clitoral Gland  |   | Inflammation                      | Chronic, Mild       |
| * Heart           |   | Cardiomyopathy                    | Minimal             |
| * Kidney          |   | Nephropathy                       | Minimal             |
| * Liver           |   | Basophilic Focus                  |                     |
|                   |   | Eosinophilic Focus                |                     |
|                   |   | Infiltration Cellular             | Mixed Cell, Minimal |
|                   | [ Eosinophilic Focus TGLs = 3-23,4-24 ] |                                   |                     |
| * Lung            | Alveolar Epith                          | Hyperplasia                       | Minimal             |
|                   |   | Inflammation                      | Chronic, Minimal    |
| * Mammary Gland   |   | Hyperplasia                       | Mild                |
| Mesentery         | Fat                                     | Necrosis                          | Moderate            |
|                   | [ Necrosis TGLs = 1-21,2-22 ]           |                                   |                     |
| * Pancreas        |   | Cyst                              |                     |
| * Pituitary Gland | Pars Distalis                           | Angiectasis                       | Minimal             |
|                   | Pars Distalis                           | Cyst                              |                     |
|                   | Pars Distalis                           | Hyperplasia                       | Focal, Mild         |
| * Skin            | SOA                                     | Hyperkeratosis                    | Minimal             |
| * Spleen          |   | Hematopoietic Cell Proliferation  | Mild                |
|                   |   | Pigmentation                      | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 216

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 112181

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 217

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112182

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	Mild
	[ Compression TGLs = 5-1 ]		
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 2-21 ]	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 3-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 4-22 ]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 217

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112182

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Polyp Stromal TGLs = 1-7 ]

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 218

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112183

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Nose                   |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                               |                                   |                |
|--------------------------|-------------------------------|-----------------------------------|----------------|
| * Adrenal Cortex         |                               | Accessory Adrenal Cortical Nodule |                |
|                          |                               | Hyperplasia                       | Focal, Mild    |
| * Brain                  |                               | Compression                       | Moderate       |
|                          | [ Compression TGLs = 6-1 ]    |                                   |                |
| * Heart                  |                               | Cardiomyopathy                    | Mild           |
| * Kidney                 |                               | Nephropathy                       | Moderate       |
|                          | [ Nephropathy TGLs = 3-5 ]    |                                   |                |
| * Liver                  |                               | Basophilic Focus                  |                |
|                          |                               | Mixed Cell Focus                  |                |
| * Lymph Node, Mesenteric |                               | Hyperplasia                       | Lymphoid, Mild |
| * Mammary Gland          |                               | Hyperplasia                       | Moderate       |
|                          | [ Hyperplasia TGLs = 1-8 ]    |                                   |                |
| Mesentery                |                               | Necrosis                          | Moderate       |
|                          | [ Necrosis TGLs = 2-21,4-22 ] |                                   |                |
| * Pituitary Gland        |                               | Adenoma                           |                |
|                          | [ Adenoma TGLs = 5-1 ]        |                                   |                |
| * Skin                   | SOA                           | Hyperkeratosis                    | Minimal        |
| * Spleen                 |                               | Hematopoietic Cell Proliferation  | Minimal        |
|                          |                               | Pigmentation                      | Moderate       |
| * Thyroid Gland          | C Cell                        | Hyperplasia                       | Moderate       |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 219

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112184

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Parathyroid Gland        |
| * Salivary Glands         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                              |                |                             |                     |
|------------------------------|----------------|-----------------------------|---------------------|
| * Adrenal Cortex             |                | Adenoma                     |                     |
|                              |                | Degeneration                | Fatty, Marked       |
| * Brain                      |                | Compression                 | Marked              |
| [ Compression TGLs = 7-1 ]   |                |                             |                     |
| * Clitoral Gland             |                | Adenoma                     |                     |
| [ Adenoma TGLs = 1-8 ]       |                |                             |                     |
| * Heart                      |                | Cardiomyopathy              | Minimal             |
| * Kidney                     |                | Nephropathy                 | Moderate            |
| * Liver                      |                | Basophilic Focus            |                     |
|                              |                | Leukemia Mononuclear        |                     |
| * Lung                       | Alveolar Epith | Hyperplasia                 | Mild                |
|                              |                | Infiltration Cellular       | Histiocyte, Minimal |
| * Mammary Gland              |                | Fibroadenoma                |                     |
|                              |                | Hyperplasia                 | Moderate            |
| [ Fibroadenoma TGLs = 3-21 ] |                |                             |                     |
| [ Hyperplasia TGLs = 2-8 ]   |                |                             |                     |
| * Ovary                      |                | Granulosa Cell Tumor Benign |                     |
| * Pancreas                   |                | Atrophy                     | Mild                |
| * Pituitary Gland            | Pars Distalis  | Adenoma                     |                     |
| [ Adenoma TGLs = 6-1 ]       |                |                             |                     |
| * Skin                       | Epidermis      | Hyperplasia                 | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 219

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112184

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Ulcer

Moderate

[ Hyperplasia TGLs = 5-22 ]

[ Ulcer TGLs = 5-22 ]

Leukemia Mononuclear

\* Spleen

[ Leukemia Mononuclear TGLs = 4-6 ]

---



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 220

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 650

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112185

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Nose                   | * Parathyroid Gland        |
| * Salivary Glands         | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                                 |     |                  |                   |
|---------------------------------|-----|------------------|-------------------|
| * Adrenal Cortex                |     | Adenoma          |                   |
|                                 |     | Degeneration     | Fatty, Moderate   |
| * Brain                         |     | Compression      | Marked            |
| [ Compression TGLs = 7-1 ]      |     |                  |                   |
| * Clitoral Gland                |     | Inflammation     | Chronic, Moderate |
| * Heart                         |     | Cardiomyopathy   | Mild              |
| * Kidney                        |     | Nephropathy      | Moderate          |
| * Liver                         |     | Basophilic Focus |                   |
|                                 |     | Clear Cell Focus |                   |
| [ Basophilic Focus TGLs = 5-6 ] |     |                  |                   |
| [ Clear Cell Focus TGLs = 5-6 ] |     |                  |                   |
| * Lymph Node, Mesenteric        |     | Hemorrhage       | Minimal           |
|                                 |     | Hyperplasia      | Lymphoid, Mild    |
| * Mammary Gland                 |     | Hyperplasia      | Marked            |
| [ Hyperplasia TGLs = 1-8 ]      |     |                  |                   |
| Mesentery                       | Fat | Necrosis         | Moderate          |
| [ Necrosis TGLs = 3-21 ]        |     |                  |                   |
| * Ovary                         |     | Cyst             |                   |
| [ Cyst TGLs = 4-7 ]             |     |                  |                   |
| * Pancreas                      |     | Atrophy          | Moderate          |
|                                 |     | Cyst             |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 220

TMT: 2

SEX: Female

DAY ON TEST: 650

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 112185

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Adenoma TGLs = 6-1 ]	Pars Distalis	Adenoma	
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 221

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112186

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Brain		Compression	Marked
		Hemorrhage	Minimal
	[ Compression TGLs = 8-1 ]		
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLs = 4-23 ]		
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	[ Ectasia TGLs = 7-3 ]		
	[ Hemorrhage TGLs = 7-3 ]		
	[ Hyperplasia TGLs = 7-3 ]		
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 1-21 ]		
	[ Hyperplasia TGLs = 2-8 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 221

TMT: 2

SEX: Female

DAY ON TEST: 632

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 112186

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [ Necrosis TGLs = 3-22 ]	Fat	Necrosis	Moderate
* Pituitary Gland [ Adenoma TGLs = 9-1 ]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
[ Hyperplasia TGLs = 11-24 ]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 222

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112187

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Trachea                   | * Urinary Bladder        | * Uterus                   |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                      |                       |                     |
|--------------------------|--------------------------------------|-----------------------|---------------------|
| * Heart                  |                                      | Cardiomyopathy        | Mild                |
| * Kidney                 |                                      | Nephropathy           | Minimal             |
| * Liver                  |                                      | Basophilic Focus      |                     |
|                          |                                      | Infiltration Cellular | Mixed Cell, Minimal |
| Lymph Node               | Pancreatic                           | Ectasia               | Marked              |
|                          | Pancreatic                           | Pigmentation          | Moderate            |
|                          | [ Ectasia TGLs = 4-7 ]               |                       |                     |
| * Lymph Node, Mesenteric |                                      | Pigmentation          | Moderate            |
| * Mammary Gland          |                                      | Hyperplasia           | Marked              |
|                          | [ Hyperplasia TGLs = 1-8,2-21,3-22 ] |                       |                     |
| Mesentery                | Fat                                  | Necrosis              | Moderate            |
|                          | [ Necrosis TGLs = 5-23 ]             |                       |                     |
| * Nose                   |                                      | Inflammation          | Chronic, Minimal    |
| * Pituitary Gland        | Pars Distalis                        | Angiectasis           | Mild                |
|                          | Pars Distalis                        | Cyst                  |                     |
|                          | [ Angiectasis TGLs = 6-1 ]           |                       |                     |
|                          | [ Cyst TGLs = 6-1 ]                  |                       |                     |
| * Skin                   | SOA                                  | Hyperkeratosis        | Minimal             |
|                          | Epidermis                            | Hyperplasia           | Moderate            |
|                          |                                      | Ulcer                 | Marked              |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 222

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112187

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 7-24 ]

[ Ulcer TGLs = 7-24 ]

\* Spleen

Hematopoietic Cell Proliferation

Mild

\* Thyroid Gland

C Cell

Adenoma

Note: C-CELL ADENOMA IS ENCROACHING ON THE PARATHYROID GLAND.

---

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 223

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 426  
**HISTO:** 112188

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                            |                          |                           |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Bone                   | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus                | * Eye                    | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                  |
| * Liver                     | * Nose                     | * Ovary                  | * Pancreas                |
| * Parathyroid Gland         | * Salivary Glands          | * Skin                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                   | * Thyroid Gland          | * Trachea                 |
| * Urinary Bladder           |                            |                          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Ileum

**OBSERVATIONS**

- |                          |                              |                                  |                |
|--------------------------|------------------------------|----------------------------------|----------------|
| * Brain                  |                              | Compression                      | Moderate       |
|                          |                              | Hemorrhage                       | Mild           |
|                          | [ Compression TGLs = 5-1 ]   |                                  |                |
| * Lung                   |                              | Hemorrhage                       | Mild           |
|                          | [ Hemorrhage TGLs = 3-2 ]    |                                  |                |
| * Lymph Node, Mesenteric |                              | Hyperplasia                      | Lymphoid, Mild |
| * Mammary Gland          |                              | Hyperplasia                      | Mild           |
| * Pituitary Gland        | Pars Distalis                | Adenoma                          |                |
|                          | [ Adenoma TGLs = 4-1 ]       |                                  |                |
| * Spleen                 |                              | Hematopoietic Cell Proliferation | Mild           |
| * Uterus                 |                              | Polyp Stromal                    | Multiple       |
|                          | [ Polyp Stromal TGLs = 6-7 ] |                                  |                |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 224

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112189

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

**OBSERVATIONS**

- |                              |               |                                  |                     |
|------------------------------|---------------|----------------------------------|---------------------|
| * Adrenal Cortex             |               | Degeneration                     | Fatty, Moderate     |
|                              |               | Hypertrophy                      | Focal, Moderate     |
| * Clitoral Gland             |               | Cyst                             |                     |
| [ Cyst TGLs = 2-8 ]          |               |                                  |                     |
| * Kidney                     |               | Nephropathy                      | Minimal             |
| * Liver                      |               | Basophilic Focus                 |                     |
| * Lung                       |               | Infiltration Cellular            | Histiocyte, Minimal |
| * Mammary Gland              |               | Fibroadenoma                     |                     |
|                              |               | Hyperplasia                      | Mild                |
| [ Fibroadenoma TGLs = 7-21 ] |               |                                  |                     |
| [ Hyperplasia TGLs = 1-8 ]   |               |                                  |                     |
| * Ovary                      |               | Cyst                             |                     |
| [ Cyst TGLs = 4-7 ]          |               |                                  |                     |
| * Pituitary Gland            | Pars Distalis | Cyst                             |                     |
| [ Cyst TGLs = 6-1 ]          |               |                                  |                     |
| * Spleen                     |               | Hematopoietic Cell Proliferation | Minimal             |
| * Thyroid Gland              | C Cell        | Adenoma                          |                     |
|                              | C Cell        | Hyperplasia                      | Minimal             |
| [ Adenoma TGLs = 5-3 ]       |               |                                  |                     |
| * Uterus                     |               | Polyp Stromal                    |                     |
| [ Polyp Stromal TGLs = 3-7 ] |               |                                  |                     |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 225

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112190

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                             |                                  |                       |
|--------------------------|-----------------------------|----------------------------------|-----------------------|
| * Adrenal Cortex         |                             | Degeneration                     | Fatty, Mild           |
| * Clitoral Gland         |                             | Hyperplasia                      | Mild                  |
| * Heart                  |                             | Cardiomyopathy                   | Mild                  |
| * Kidney                 |                             | Nephropathy                      | Mild                  |
| * Liver                  |                             | Basophilic Focus                 |                       |
| Lymph Node               | Mediastinal                 | Hyperplasia                      | Lymphoid, Moderate    |
|                          | Mediastinal                 | Pigmentation                     | Moderate              |
|                          | [ Pigmentation TGLs = 2-3 ] |                                  |                       |
| * Lymph Node, Mesenteric |                             | Hyperplasia                      | Histiocytic, Moderate |
| * Mammary Gland          |                             | Hyperplasia                      | Moderate              |
|                          | [ Hyperplasia TGLs = 1-8 ]  |                                  |                       |
| * Ovary                  |                             | Cyst                             |                       |
|                          | [ Cyst TGLs = 4-7 ]         |                                  |                       |
| * Pituitary Gland        | Pars Distalis               | Adenoma                          |                       |
|                          | Pars Distalis               | Cyst                             |                       |
|                          | [ Adenoma TGLs = 3-1 ]      |                                  |                       |
| * Skin                   | Control Epider              | Hyperplasia                      | Minimal               |
| * Spleen                 |                             | Hematopoietic Cell Proliferation | Mild                  |
| * Thyroid Gland          | C Cell                      | Hyperplasia                      | Minimal               |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 226

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112191

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                            |                     |
|--------------------------|--|----------------------------|---------------------|
| * Adrenal Cortex         |  | Degeneration               | Fatty, Moderate     |
|                          |  | Hyperplasia                | Focal, Minimal      |
| * Bone Marrow            |  | Leukemia Mononuclear       |                     |
| * Clitoral Gland         |  | Carcinoma                  |                     |
|                          |  | Cyst                       |                     |
|                          | [ Carcinoma TGLs = 2-8 ]                   |                            |                     |
| * Heart                  |  | Cardiomyopathy             | Moderate            |
| * Kidney                 |  | Nephropathy                | Mild                |
| * Liver                  |  | Basophilic Focus           |                     |
|                          |  | Hepatodiaphragmatic Nodule |                     |
|                          | Bile Duct                                  | Hyperplasia                | Minimal             |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 6-24 ] | Leukemia Mononuclear       |                     |
| * Lung                   |  | Mixed Cell Focus           |                     |
|                          |  | Infiltration Cellular      | Histiocyte, Minimal |
|                          |  | Leukemia Mononuclear       |                     |
|                          |  | Metaplasia                 | Osseous, Minimal    |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear       |                     |
| * Mammary Gland          |  | Fibroadenoma               | Multiple            |
|                          |  | Hyperplasia                | Mild                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 226

TMT: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112191

ORGAN AND ACCOUNTABLE SITE STATUS

[ Fibroadenoma TGLs = 3-21,9-26 ]			
[ Hyperplasia TGLs = 1-8,8-25 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLs = 4-22,5-23 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
Note: ONE OF THE PITUITARY GLAND CYSTS CONTAINS BLOOD.			
[ Cyst TGLs = 7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 227

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112192

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Ovary                     | * Parathyroid Gland      | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | Vagina                   |                            |

**OBSERVATIONS**

- |                          |                                       |                               |          |
|--------------------------|---------------------------------------|-------------------------------|----------|
| * Adrenal Cortex         |                                       | Leukemia Mononuclear          |          |
| * Adrenal Medulla        |                                       | Hyperplasia                   | Minimal  |
| * Bone Marrow            |                                       | Leukemia Mononuclear          |          |
| * Heart                  |                                       | Leukemia Mononuclear          |          |
|                          | [ Leukemia Mononuclear TGLs = 17-12 ] |                               |          |
| * Kidney                 | Renal Tubule                          | Accumulation, Hyaline Droplet | Moderate |
|                          |                                       | Leukemia Mononuclear          |          |
|                          |                                       | Nephropathy                   | Minimal  |
| * Liver                  | Bile Duct                             | Hyperplasia                   | Moderate |
|                          |                                       | Leukemia Mononuclear          |          |
|                          | [ Hyperplasia TGLs = 9-6 ]            |                               |          |
|                          | [ Leukemia Mononuclear TGLs = 9-6 ]   |                               |          |
| * Lung                   |                                       | Leukemia Mononuclear          |          |
| Lymph Node               | Mediastinal                           | Leukemia Mononuclear          |          |
|                          | Pancreatic                            | Leukemia Mononuclear          |          |
|                          | Renal                                 | Leukemia Mononuclear          |          |
|                          | Deep Cervical                         | Leukemia Mononuclear          |          |
|                          | [ Leukemia Mononuclear TGLs = 14-3 ]  |                               |          |
|                          | [ Leukemia Mononuclear TGLs = 7-7 ]   |                               |          |
|                          | [ Leukemia Mononuclear TGLs = 12-23 ] |                               |          |
|                          | [ Leukemia Mononuclear TGLs = 18-27 ] |                               |          |
|                          | [ Leukemia Mononuclear TGLs = 19-28 ] |                               |          |
| * Lymph Node, Mandibular |                                       | Leukemia Mononuclear          |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 227

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112192

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 10-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	Note: EXTENSIVE MONONUCLEAR LEUKEMIA INFILTRATE IN MAMMARY GLAND ON SLIDE 21; MORPHOLOGY UNAVAILABLE ON TDMS.		
	[ Hyperplasia TGLs = 1-8,2-21 ]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Leukemia Mononuclear	
	[ Adenoma TGLs = 21-1 ]		
* Salivary Glands		Leukemia Mononuclear	
Skeletal Muscle		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 16-26 ]		
* Skin		Cyst Epithelial Inclusion	
	Epidermis	Hyperplasia	Marked
		Inflammation	Chronic, Moderate
	[ Cyst Epithelial Inclusion TGLs = 13-24 ]		
	[ Hyperplasia TGLs = 20-29 ]		
	[ Inflammation TGLs = 20-29 ]		
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
	[ Fibrosis TGLs = 5-22 ]		
	[ Leukemia Mononuclear TGLs = 6-6 ]		
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Mild
	[ Erosion TGLs = 22-30 ]		
* Thymus		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 23-3 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

---

**ANIMAL NUM:** 227

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112192

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tissue NOS

Leukemia Mononuclear

Note: TISSUE NOS (TGL 15) IS MEDIASTINUM.

[ Leukemia Mononuclear TGLs = 15-25 ]

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLs = 3-7 ]

---

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 228

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 605  
**HISTO:** 112193

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-6 ]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 5-22 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[ Adenoma TGLs = 7-1 ]		
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 228

TMT: 2

SEX: Female

DAY ON TEST: 605

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 112193

ORGAN AND ACCOUNTABLE SITE STATUS

Necrosis

Marked

[ Hemorrhage TGLs = 3-21 ]

[ Leukemia Mononuclear TGLs = 2-21 ]

[ Necrosis TGLs = 3-21 ]

\* Thymus

Leukemia Mononuclear

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 229

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 736  
**HISTO:** 112194

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Clitoral Gland		Adenoma	
		Cyst	
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[ Basophilic Focus TGLs = 6-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 1-21,2-22,3-23 ]		
	[ Hyperplasia TGLs = 4-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 5-24 ]		
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
	[ Cyst TGLs = 7-1 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 229

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112194

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Control Epider	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Thymus		Thymoma Benign	

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 230

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112195

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[ Cataract TGLs = 3-44 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLs = 2-21 ]		
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 231

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 629  
**HISTO:** 112196

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
	[ Compression TGLs = 5-1 ]		
* Kidney		Nephropathy	Moderate
* Liver		Mixed Cell Focus	
* Lung		Hemorrhage	Moderate
	[ Hemorrhage TGLs = 4-2 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
	[ Ulcer TGLs = 8-4 ]		
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
 CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 232

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 714

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 112197

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Nose                   | * Parathyroid Gland        | * Salivary Glands         |
| * Stomach, Forestomach      | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           | * Uterus                 |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |                           |                     |
|-------------------|--|---------------------------|---------------------|
| * Adrenal Cortex  |  | Leukemia Mononuclear      |                     |
| * Adrenal Medulla |  | Leukemia Mononuclear      |                     |
| * Bone Marrow     |  | Leukemia Mononuclear      |                     |
| * Clitoral Gland  |  | Hyperplasia               | Minimal             |
| * Heart           |  | Cardiomyopathy            | Moderate            |
| * Kidney          |  | Leukemia Mononuclear      |                     |
|                   |  | Nephropathy               | Moderate            |
| * Liver           | Bile Duct                                | Hyperplasia               | Mild                |
|                   | Hepatocyte                               | Leukemia Mononuclear      |                     |
|                   |  | Vacuolization Cytoplasmic | Moderate            |
|                   | [ Hyperplasia TGLs = 4-6 ]               |                           |                     |
|                   | [ Leukemia Mononuclear TGLs = 4-6 ]      |                           |                     |
|                   | [ Vacuolization Cytoplasmic TGLs = 4-6 ] |                           |                     |
| * Lung            |  | Infiltration Cellular     | Histiocyte, Minimal |
|                   |  | Leukemia Mononuclear      |                     |
| * Mammary Gland   |  | Hyperplasia               | Moderate            |
|                   | [ Hyperplasia TGLs = 1-8,2-21 ]          |                           |                     |
| * Ovary           |  | Cyst                      |                     |
| * Pancreas        |  | Atrophy                   | Minimal             |
|                   |  | Cyst                      |                     |
| * Pituitary Gland | Pars Distalis                            | Adenoma                   |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 232

TMT: 2

SEX: Female

DAY ON TEST: 714

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 112197

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 5-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 3-6 ]			
* Stomach, Glandular		Erosion	Mild
		Ulcer	Moderate
[ Erosion TGLs = 8-4 ]			
[ Ulcer TGLs = 8-22 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 233

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112198

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Nose                     | * Ovary                   | * Parathyroid Gland         | * Salivary Glands        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                             |                  |                |
|-------------------|-----------------------------|------------------|----------------|
| * Adrenal Cortex  |                             | Degeneration     | Fatty, Minimal |
| * Clitoral Gland  |                             | Cyst             |                |
|                   |                             | Inflammation     | Chronic, Mild  |
|                   | [ Cyst TGLs = 2-8 ]         |                  |                |
|                   | [ Inflammation TGLs = 2-8 ] |                  |                |
| * Heart           |                             | Cardiomyopathy   | Mild           |
| * Kidney          |                             | Nephropathy      | Minimal        |
| * Liver           |                             | Basophilic Focus |                |
|                   |                             | Clear Cell Focus |                |
| * Mammary Gland   |                             | Hyperplasia      | Moderate       |
|                   | [ Hyperplasia TGLs = 1-8 ]  |                  |                |
| * Pancreas        |                             | Cyst             |                |
| * Pituitary Gland | Pars Distalis               | Cyst             |                |
|                   | [ Cyst TGLs = 4-1 ]         |                  |                |
| * Skin            |                             | Fibroma          |                |
|                   | [ Fibroma TGLs = 3-21 ]     |                  |                |
| * Spleen          |                             | Pigmentation     | Moderate       |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 234

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112199

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Clitoral Gland           | * Esophagus               | * Eye                       |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Nose                    | * Parathyroid Gland         |
| * Salivary Glands        | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         | * Uterus                    |

**OBSERVATIONS**

- |                   |  |                                  |                   |
|-------------------|--|----------------------------------|-------------------|
| * Harderian Gland |  | Hyperplasia                      | Focal, Minimal    |
| * Heart           |  | Cardiomyopathy                   | Moderate          |
| * Kidney          | Transit Epithe                             | Hyperplasia                      | Mild              |
|                   |  | Inflammation                     | Chronic, Moderate |
|                   |  | Nephropathy                      | Marked            |
|                   | [ Inflammation TGLs = 2-5 ]                |                                  |                   |
|                   | [ Nephropathy TGLs = 2-5 ]                 |                                  |                   |
| * Liver           |  | Basophilic Focus                 |                   |
|                   |  | Clear Cell Focus                 |                   |
|                   |  | Hepatodiaphragmatic Nodule       |                   |
|                   | Hepatocyte                                 | Vacuolization Cytoplasmic        | Mild              |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 3-21 ] |                                  |                   |
| * Mammary Gland   |  | Hyperplasia                      | Moderate          |
|                   | [ Hyperplasia TGLs = 1-8 ]                 |                                  |                   |
| * Ovary           |  | Cyst                             |                   |
| * Pancreas        | Acinus                                     | Cytoplasmic Alteration           | Moderate          |
| * Pituitary Gland | Pars Distalis                              | Adenoma                          |                   |
|                   | Pars Distalis                              | Cyst                             |                   |
|                   | Pars Intermed                              | Hyperplasia                      | Focal, Mild       |
|                   | [ Adenoma TGLs = 4-1 ]                     |                                  |                   |
| * Skin            | Control Epider                             | Hyperplasia                      | Minimal           |
| * Spleen          |  | Hematopoietic Cell Proliferation | Mild              |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 235

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112200

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Brain                   | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Nose                   |
| * Ovary                    | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Thymus                  | * Trachea                   | * Urinary Bladder        |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                       |                  |
|--------------------------|--|-----------------------|------------------|
| * Adrenal Cortex         |  | Leukemia Mononuclear  |                  |
| * Adrenal Medulla        |  | Leukemia Mononuclear  |                  |
| * Bone Marrow            |  | Leukemia Mononuclear  |                  |
| * Liver                  |  | Basophilic Focus      |                  |
|                          |  | Clear Cell Focus      |                  |
|                          |  | Leukemia Mononuclear  |                  |
| * Lung                   |  | Infiltration Cellular | Histiocyte, Mild |
|                          |  | Leukemia Mononuclear  |                  |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear  |                  |
|                          | [ Leukemia Mononuclear TGLs = 3-5,4-22 ] |                       |                  |
| * Mammary Gland          |  | Hyperplasia           | Moderate         |
| Mesentery                | Fat                                      | Necrosis              | Moderate         |
|                          | [ Necrosis TGLs = 1-21 ]                 |                       |                  |
| * Pancreas               |  | Cyst                  |                  |
| * Spleen                 |  | Leukemia Mononuclear  |                  |
|                          | [ Leukemia Mononuclear TGLs = 2-6 ]      |                       |                  |
| * Stomach, Forestomach   | Epithelium                               | Hyperplasia           | Minimal          |
| * Stomach, Glandular     |  | Edema                 | Mild             |
| * Thyroid Gland          | C Cell                                   | Carcinoma             |                  |
|                          | [ Carcinoma TGLs = 5-3 ]                 |                       |                  |
| * Uterus                 |  | Polyp Stromal         |                  |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 235

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112200

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Polyp Stromal TGLs = 7-7 ]

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

---

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 236

TMT: 2

SEX: Female

DAY ON TEST: 22

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 112201

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Lung		Hemorrhage	Minimal
	Serosa	Hyperplasia	Mild
[ Hemorrhage TGLs = 4-2 ]			
[ Hyperplasia TGLs = 4-2 ]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLs = 3-3 ]			

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 237

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112202

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Esophagus               |
| * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Parathyroid Gland      | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                                     |                                   |                     |
|-------------------|-------------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex  |                                     | Accessory Adrenal Cortical Nodule |                     |
|                   |                                     | Adenoma                           |                     |
| * Brain           |                                     | Compression                       | Mild                |
|                   |                                     | Hemorrhage                        | Minimal             |
|                   | [ Compression TGLs = 6-1 ]          |                                   |                     |
| * Clitoral Gland  |                                     | Adenoma                           |                     |
|                   | [ Adenoma TGLs = 1-8 ]              |                                   |                     |
| * Harderian Gland |                                     | Adenoma                           |                     |
| * Heart           |                                     | Cardiomyopathy                    | Moderate            |
| * Kidney          |                                     | Inflammation                      | Chronic, Mild       |
|                   |                                     | Nephropathy                       | Moderate            |
| * Liver           |                                     | Basophilic Focus                  |                     |
|                   |                                     | Infiltration Cellular             | Mixed Cell, Mild    |
|                   |                                     | Leukemia Mononuclear              |                     |
|                   | [ Leukemia Mononuclear TGLs = 5-6 ] |                                   |                     |
| * Lung            |                                     | Infiltration Cellular             | Histiocyte, Minimal |
| * Mammary Gland   |                                     | Fibroadenoma                      |                     |
|                   |                                     | Hyperplasia                       | Moderate            |
|                   | [ Fibroadenoma TGLs = 2-21 ]        |                                   |                     |
|                   | [ Hyperplasia TGLs = 3-8 ]          |                                   |                     |
| Mesentery         | Fat                                 | Necrosis                          | Marked              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 237

TMT: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112202

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 4-22 ]			
* Nose		Inflammation	Chronic, Minimal
* Ovary		Cyst	
[ Cyst TGLs = 8-7 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 7-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLs = 9-23 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 238

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 720  
**HISTO:** 112203

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Ovary                     | * Parathyroid Gland      | * Salivary Glands          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                            |

**MISSING**

- |                   |                          |
|-------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Mandibular |
|-------------------|--------------------------|

**OBSERVATIONS**

- |                          |   |                                   |                  |
|--------------------------|---|-----------------------------------|------------------|
| * Adrenal Cortex         |   | Accessory Adrenal Cortical Nodule |                  |
| * Brain                  |   | Hemorrhage                        | Minimal          |
| * Heart                  |   | Cardiomyopathy                    | Minimal          |
| * Kidney                 |   | Nephropathy                       | Minimal          |
| * Liver                  |   | Basophilic Focus                  |                  |
|                          |   | Hepatodiaphragmatic Nodule        |                  |
|                          | [ Basophilic Focus TGLs = 7-6 ]                 |                                   |                  |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 3-22,4-23 ] |                                   |                  |
| * Lung                   |   | Infiltration Cellular             | Histiocyte, Mild |
| * Lymph Node, Mesenteric |   | Hyperplasia                       | Lymphoid, Mild   |
| * Mammary Gland          |   | Carcinoma                         |                  |
|                          |   | Hyperplasia                       | Moderate         |
|                          | [ Carcinoma TGLs = 2-21 ]                       |                                   |                  |
|                          | [ Hyperplasia TGLs = 1-8 ]                      |                                   |                  |
| * Nose                   | Respirat Epith                                  | Hyperplasia                       | Mild             |
|                          |   | Inflammation                      | Chronic, Minimal |
| * Pancreas               |   | Atrophy                           | Moderate         |
| * Pituitary Gland        | Pars Distalis                                   | Adenoma                           |                  |
|                          | [ Adenoma TGLs = 5-1 ]                          |                                   |                  |
| * Skin                   | Control Epider                                  | Hyperplasia                       | Minimal          |
| * Spleen                 |   | Hematopoietic Cell Proliferation  | Minimal          |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 238

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 720

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 112203

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Pigmentation

Moderate

---

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 239

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 554  
**HISTO:** 112204

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                     |                       |                              |
|--------------------------|-------------------------------------|-----------------------|------------------------------|
| * Adrenal Cortex         |                                     | Degeneration          | Fatty, Minimal               |
| * Adrenal Medulla        |                                     | Hyperplasia           | Minimal                      |
| * Bone Marrow            |                                     | Leukemia Mononuclear  |                              |
| * Brain                  |                                     | Carcinoma             | Metastatic (Pituitary Gland) |
|                          |                                     | Leukemia Mononuclear  |                              |
|                          | [ Carcinoma TGLs = 6-1 ]            |                       |                              |
|                          | [ Leukemia Mononuclear TGLs = 6-1 ] |                       |                              |
| * Kidney                 |                                     | Nephropathy           | Minimal                      |
|                          | Renal Tubule                        | Pigmentation          | Mild                         |
| * Liver                  |                                     | Leukemia Mononuclear  |                              |
|                          | Centrilobular                       | Necrosis              | Minimal                      |
| * Lung                   |                                     | Infiltration Cellular | Histiocyte, Minimal          |
|                          |                                     | Leukemia Mononuclear  |                              |
| Lymph Node               | Mediastinal                         | Leukemia Mononuclear  |                              |
|                          | Pancreatic                          | Leukemia Mononuclear  |                              |
|                          | [ Leukemia Mononuclear TGLs = 5-3 ] |                       |                              |
|                          | [ Leukemia Mononuclear TGLs = 4-7 ] |                       |                              |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear  |                              |
| * Mammary Gland          |                                     | Hyperplasia           | Mild                         |
| Mesentery                | Fat                                 | Necrosis              | Marked                       |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 239

TMT: 2

SEX: Female

DAY ON TEST: 554

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 112204

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 2-21 ]

\* Pituitary Gland

Pars Distalis

Carcinoma

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Moderate

Leukemia Mononuclear

[ Carcinoma TGLs = 7-1 ]

[ Leukemia Mononuclear TGLs = 7-1 ]

\* Spleen

Leukemia Mononuclear

[ Leukemia Mononuclear TGLs = 3-6 ]

\* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 240

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 653

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112205

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Esophagus               |
| * Eye                       | * Harderian Gland        | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mesenteric | * Nose                     | * Ovary                   |
| * Parathyroid Gland         | * Salivary Glands        | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |
| Vagina                      |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                               |              |                                  |                |
|-------------------------------|--------------|----------------------------------|----------------|
| * Bone Marrow                 |              | Hyperplasia                      | Mild           |
| * Brain                       |              | Compression                      | Moderate       |
| [ Compression TGLs = 10-1 ]   |              |                                  |                |
| * Clitoral Gland              |              | Adenoma                          |                |
| [ Adenoma TGLs = 1-8 ]        |              |                                  |                |
| * Heart                       |              | Cardiomyopathy                   | Moderate       |
| * Intestine Large, Cecum      |              | Edema                            | Mild           |
| * Kidney                      | Renal Tubule | Dilatation                       | Moderate       |
| [ Nephropathy TGLs = 7-5 ]    |              | Nephropathy                      | Moderate       |
| * Liver                       |              | Hematopoietic Cell Proliferation | Mild           |
|                               | Hepatocyte   | Vacuolization Cytoplasmic        | Marked         |
| Lymph Node                    | Mediastinal  | Hyperplasia                      | Lymphoid, Mild |
| [ Hyperplasia TGLs = 8-24 ]   |              |                                  |                |
| * Mammary Gland               |              | Carcinoma                        |                |
| [ Carcinoma TGLs = 2-21 ]     |              | Hyperplasia                      | Marked         |
| Mesentery                     | Fat          | Necrosis                         | Moderate       |
| [ Necrosis TGLs = 5-22,6-23 ] |              |                                  |                |
| * Pancreas                    | Acinus       | Cytoplasmic Alteration           | Marked         |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 240

TMT: 2

SEX: Female

DAY ON TEST: 653

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 112205

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland [ Adenoma TGLs = 9-1 ]	Pars Distalis	Adenoma	
* Skin	Control	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Moderate
* Stomach, Forestomach [ Ulcer TGLs = 11-4 ]	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Carcinoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 241

TMT: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule Hyperplasia	Focal, Minimal
* Brain [ Compression TGLs = 10-1 ]	Compression	Moderate
* Clitoral Gland [ Cyst TGLs = 3-8-1 ] [ Inflammation TGLs = 3-8-1 ]	Cyst Inflammation	Chronic, Mild
* Heart	Cardiomyopathy	Moderate
* Kidney	Inflammation Nephropathy	Chronic, Mild Moderate
* Liver [ Eosinophilic Focus TGLs = 12-25 ]	Basophilic Focus Eosinophilic Focus Mixed Cell Focus	
* Lung	Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric	Hemorrhage Pigmentation	Minimal Moderate
* Mammary Gland [ Fibroadenoma TGLs = 2-21,4-22 ]	Fibroadenoma Hyperplasia	Multiple Marked

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 241

TMT: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112206

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	[ Hyperplasia TGLs = 1-8 ]	Fibrosis	Mild
	[ Fibrosis TGLs = 7-26 ]		
* Ovary		Cyst	
	[ Cyst TGLs = 6-7 ]		
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland		Adenoma	
	Pars Distalis		
	[ Adenoma TGLs = 11-1 ]		
* Skin		Fibroma	
		Hyperplasia	Marked
		Inflammation	Chronic, Moderate
	[ Fibroma TGLs = 9-24 ]		
	[ Hyperplasia TGLs = 8-23 ]		
	[ Inflammation TGLs = 8-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 242

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112207

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   |
| * Ovary                    | * Parathyroid Gland       | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |   |                                   |                  |
|-------------------|---|-----------------------------------|------------------|
| * Adrenal Cortex  |   | Accessory Adrenal Cortical Nodule |                  |
|                   |   | Hypertrophy                       | Focal, Minimal   |
| * Clitoral Gland  |   | Adenoma                           |                  |
| * Heart           |   | Cardiomyopathy                    | Minimal          |
| * Kidney          |   | Nephropathy                       | Minimal          |
| * Liver           |   | Hepatodiaphragmatic Nodule        |                  |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 3-22,7-23 ] |                                   |                  |
| * Lung            |   | Hemorrhage                        | Minimal          |
|                   |   | Inflammation                      | Chronic, Minimal |
|                   |   | Pigmentation                      | Mild             |
|                   | [ Hemorrhage TGLs = 4-2 ]                       |                                   |                  |
|                   | [ Pigmentation TGLs = 4-2 ]                     |                                   |                  |
| * Mammary Gland   |   | Hyperplasia                       | Mild             |
|                   | [ Hyperplasia TGLs = 1-8 ]                      |                                   |                  |
| Mesentery         | Fat   | Necrosis                          | Mild             |
|                   | [ Necrosis TGLs = 2-21 ]                        |                                   |                  |
| * Pancreas        |   | Atrophy                           | Minimal          |
|                   |   | Cyst                              |                  |
| * Pituitary Gland | Pars Distalis                                   | Angiectasis                       | Moderate         |
|                   | Pars Intermed                                   | Cyst                              |                  |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 242

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112207

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Angiectasis TGLs = 5-1,6-1 ]

\* Spleen

Pigmentation

Moderate

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 243

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112208

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Nose                   |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                                     |               |                           |             |
|-------------------------------------|---------------|---------------------------|-------------|
| * Adrenal Cortex                    |               | Degeneration              | Fatty, Mild |
|                                     |               | Hypertrophy               | Focal, Mild |
| * Brain                             |               | Compression               | Moderate    |
| [ Compression TGLs = 8-1 ]          |               |                           |             |
| * Heart                             |               | Cardiomyopathy            | Mild        |
| * Kidney                            |               | Leukemia Mononuclear      |             |
|                                     |               | Nephropathy               | Mild        |
| * Liver                             |               | Basophilic Focus          |             |
|                                     | Hepatocyte    | Leukemia Mononuclear      |             |
| [ Leukemia Mononuclear TGLs = 5-6 ] |               | Vacuolization Cytoplasmic | Mild        |
| Lymph Node                          | Mediastinal   | Leukemia Mononuclear      |             |
|                                     | Pancreatic    | Leukemia Mononuclear      |             |
| [ Leukemia Mononuclear TGLs = 6-3 ] |               |                           |             |
| [ Leukemia Mononuclear TGLs = 4-7 ] |               |                           |             |
| * Lymph Node, Mesenteric            |               | Leukemia Mononuclear      |             |
| * Mammary Gland                     |               | Hyperplasia               | Marked      |
| [ Hyperplasia TGLs = 1-8 ]          |               |                           |             |
| * Pituitary Gland                   | Pars Distalis | Adenoma                   |             |
| [ Adenoma TGLs = 9-1 ]              |               |                           |             |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 243

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112208

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Epidermis	Hyperplasia Inflammation	Moderate Chronic, Moderate
	[ Hyperplasia TGLs = 7-22 ] [ Inflammation TGLs = 7-22 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6,3-21 ]		

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 244

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 640  
HISTO: 112209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Brain		Compression	Mild
[ Compression TGLs = 8-1 ]			
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLs = 2-21 ]			
* Eye	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
Lymph Node	Bronchial	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLs = 6-24 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLs = 5-23 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 3-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 244

TMT: 2

SEX: Female

DAY ON TEST: 640

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 112209

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 9-1 ]  
Pars Distalis

Hyperplasia

Focal, Mild

\* Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH - Clitoral Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 245

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 701  
HISTO: 112210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Liver
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Ileum                      \* Intestine Small, Jejunum                      \* Nose

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Brain		Compression	Moderate
[ Compression    TGLs = 4-1 ]			
* Clitoral Gland		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Lung		Hemorrhage	Moderate
[ Hemorrhage    TGLs = 3-2 ]			
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma      TGLs = 5-1 ]			
* Skin		Fibroma	
	SOA	Hyperkeratosis	Mild
	Control	Hyperkeratosis	Minimal
[ Fibroma      TGLs = 7-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 245

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 112210

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Stomach, Forestomach

Epithelium

Hyperplasia

Marked

Inflammation

Chronic Active, Moderate

Ulcer

Moderate

[ Ulcer TGLs = 6-4 ]

\* Uterus

Polyp Stromal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 246

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 112211

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Marked
	[ Compression TGLs = 6-1 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Leukemia Mononuclear	
* Lung		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Inflammation	Chronic, Minimal
		Adenoma	
		Fibroadenoma	Multiple
		Hyperplasia	Marked
Note: THE MAMMARY GLAND ADENOMA IS PRESENT ON SLIDE 21 ADJACENT TO A FIBROADENOMA.			
	[ Fibroadenoma TGLs = 1-21,3-22 ]		
	[ Hyperplasia TGLs = 2-8 ]		
Mesentery		Necrosis	Minimal
	[ Necrosis TGLs = 4-23 ]		
* Pituitary Gland		Adenoma	
	[ Adenoma TGLs = 7-1 ]		
* Skin	Control	Hyperkeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 246

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112211

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Pigmentation

Moderate

---

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 247

TMT: 2

SEX: Female

DAY ON TEST: 646

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 112212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Nose

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain		Compression	Mild
		Hemorrhage	Moderate
	[ Compression TGLs = 9-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLs = 5-23 ]		
* Lung		Hemorrhage	Moderate
	[ Hemorrhage TGLs = 7-2 ]		
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLs = 6-24 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
	Note: MESENTERIC LYMPH NODE HYPERPLASIA IS EVIDENT ON SLIDES 5 AND 22.		
	[ Hyperplasia TGLs = 4-22 ]		
* Mammary Gland		Fibroadenoma	

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 247

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 646

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 112212

**ORGAN AND ACCOUNTABLE SITE STATUS**

Hyperplasia

Moderate

[ Hyperplasia TGLs = 1-8,2-21 ]

\* Pituitary Gland

Pars Distalis

Adenoma

[ Adenoma TGLs = 8-1 ]

\* Spleen

Hematopoietic Cell Proliferation

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 248

**TMT:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 112213

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Hyperplasia	Fatty, Mild Focal, Minimal Minimal
* Clitoral Gland		Cataract	Mild
* Eye	Retina	Degeneration Hyperplasia	Moderate Focal, Minimal
* Harderian Gland		Cardiomyopathy	Mild
* Heart		Adenoma	
* Islets, Pancreatic		Nephropathy	Mild
* Kidney		Basophilic Focus Mixed Cell Focus	
* Liver			
	[ Mixed Cell Focus TGLs = 3-6 ]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	
	[ Adenoma TGLs = 5-1 ]		
* Skin	Epidermis	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 248

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112213

ORGAN AND ACCOUNTABLE SITE STATUS

	Control Epider	Hyperplasia	Minimal
		Ulcer	Moderate
	[ Hyperplasia TGLs = 4-21 ]		
	[ Ulcer TGLs = 4-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLs = 2-22 ]		

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 249

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112214

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric | * Ovary                    | * Parathyroid Gland       | * Salivary Glands           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                              |                       |                      |
|-------------------|------------------------------|-----------------------|----------------------|
| * Bone Marrow     |                              | Leukemia Mononuclear  |                      |
| * Heart           |                              | Cardiomyopathy        | Moderate             |
| * Kidney          |                              | Nephropathy           | Minimal              |
| * Liver           |                              | Infiltration Cellular | Mixed Cell, Moderate |
| * Mammary Gland   |                              | Fibroadenoma          |                      |
|                   | [ Fibroadenoma TGLs = 1-21 ] | Hyperplasia           | Mild                 |
|                   | [ Hyperplasia TGLs = 3-8 ]   |                       |                      |
| * Nose            | Respirat Epith               | Foreign Body          |                      |
|                   |                              | Hyperplasia           | Minimal              |
|                   |                              | Inflammation          | Chronic, Minimal     |
|                   | Respirat Epith               | Metaplasia            | Squamous, Minimal    |
|                   | Olfactory Epi                | Metaplasia            | Respiratory, Minimal |
| * Pancreas        |                              | Atrophy               | Mild                 |
|                   |                              | Cyst                  |                      |
| * Pituitary Gland | Pars Distalis                | Adenoma               |                      |
|                   | Pars Distalis                | Cyst                  |                      |
|                   | Pars Distalis                | Hyperplasia           | Focal, Minimal       |

Note: THE PITUITARY GLAND ADENOMA IS LARGELY OBSCURED BY A CYST.

[ Adenoma TGLs = 4-1 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 249

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 112214

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	[ Cyst TGLs = 4-1 ]	Epidermis	Hyperplasia	Moderate
		Epidermis	Ulcer	Minimal
	[ Hyperplasia TGLs = 2-22 ]			
	[ Ulcer TGLs = 2-22 ]			
* Spleen			Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland		C Cell	Hyperplasia	Minimal
* Uterus			Hyperplasia	Cystic, Moderate

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 250

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112215

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
Lymph Node	Mediastinal	Pigmentation	Mild
[ Pigmentation TGLs = 4-3 ]			
* Mammary Gland		Hyperplasia	Marked
[ Hyperplasia TGLs = 1-8,3-21 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[ Adenoma TGLs = 6-1 ]			
[ Angiectasis TGLs = 5-1 ]			
* Skin	Control, Epidermis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLs = 2-22 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 251

TMT: 4

SEX: Female

DAY ON TEST: 736

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Marked
		Hyperplasia	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 1-21 ]		
	[ Hyperplasia TGLs = 2-8 ]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 4-1 ]		
* Skin	Control Epider	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Sarcoma Stromal	
	[ Sarcoma Stromal TGLs = 3-22,3-22-1 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 252

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 724

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112217

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Cyst	
		Inflammation	Chronic, Moderate
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Thrombosis	Marked
	[ Thrombosis TGLs = 11-12,12-12 ]		
* Intestine Large, Cecum		Edema	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	[ Hyperplasia TGLs = 9-6 ]		
	[ Leukemia Mononuclear TGLs = 9-6 ]		
	[ Necrosis TGLs = 9-6 ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 10-3 ]		

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 252

TMT: 4

SEX: Female

DAY ON TEST: 724

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112217

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLs = 5-7 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLs = 2-21 ]			
[ Hyperplasia TGLs = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 6-22 ]			
* Pituitary Gland	Pars Distalis	Cyst	
[ Cyst TGLs = 13-1 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 4-6 ]			
* Stomach, Forestomach		Edema	Mild
		Ulcer	Moderate
[ Ulcer TGLs = 14-4 ]			
* Stomach, Glandular		Edema	Mild
		Ulcer	Minimal
[ Ulcer TGLs = 14-4 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis  
- Mammary Gland Fibroadenoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 253

TMT: 4

SEX: Female

DAY ON TEST: 372

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2-2 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	[ Cyst TGLs = 3-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 254

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112219

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Nose                      | * Ovary                  |
| * Parathyroid Gland        | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                             |                           |                     |
|----------------------|-----------------------------|---------------------------|---------------------|
| * Adrenal Cortex     |                             | Degeneration              | Fatty, Moderate     |
| * Brain              |                             | Compression               | Minimal             |
|                      | [ Compression TGLs = 4-1 ]  |                           |                     |
| * Heart              |                             | Cardiomyopathy            | Moderate            |
| * Islets, Pancreatic |                             | Hyperplasia               | Mild                |
| * Kidney             |                             | Nephropathy               | Mild                |
| * Liver              |                             | Basophilic Focus          |                     |
|                      |                             | Clear Cell Focus          |                     |
|                      |                             | Infiltration Cellular     | Mixed Cell, Minimal |
| * Lung               | Hepatocyte                  | Vacuolization Cytoplasmic | Mild                |
|                      | Alveolar Epith              | Hyperplasia               | Mild                |
|                      |                             | Infiltration Cellular     | Histiocyte, Minimal |
|                      | Lymph Node                  | Hemorrhage                | Moderate            |
|                      |                             | Hyperplasia               | Lymphoid, Moderate  |
|                      |                             | Pigmentation              | Moderate            |
|                      | [ Hemorrhage TGLs = 3-3 ]   |                           |                     |
|                      | [ Hyperplasia TGLs = 3-3 ]  |                           |                     |
|                      | [ Pigmentation TGLs = 3-3 ] |                           |                     |
| * Mammary Gland      |                             | Hyperplasia               | Minimal             |
|                      | [ Hyperplasia TGLs = 2-8 ]  |                           |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 254

TMT: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112219

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [ Necrosis TGLs = 1-21 ]	Fat	Necrosis	Moderate
* Pancreas		Atrophy Cyst	Mild
* Pituitary Gland [ Adenoma TGLs = 5-1 ]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 255

TMT: 4

SEX: Female

DAY ON TEST: 736

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Minimal
[ Compression TGLs = 4-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Mild Moderate
* Liver		Basophilic Focus Clear Cell Focus Leukemia Mononuclear	
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 3-1 ]			
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 255

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112220

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Leukemia Mononuclear

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TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 256

TMT: 4

SEX: Female

DAY ON TEST: 715

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Brain		Compression	Marked
[ Compression TGLs = 10-1 ]			
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[ Basophilic Focus TGLs = 6-6 ]		Mixed Cell Focus	
[ Mixed Cell Focus TGLs = 6-6 ]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Deep Cervical	Hemorrhage	Mild
	Mediastinal	Pigmentation	Moderate
	Deep Cervical	Pigmentation	Moderate
[ Hemorrhage TGLs = 7-3 ]			
[ Hemorrhage TGLs = 11-23 ]			
[ Pigmentation TGLs = 7-3 ]			
[ Pigmentation TGLs = 11-23 ]			
* Lymph Node, Mandibular		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 256

TMT: 4

SEX: Female

DAY ON TEST: 715

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112221

ORGAN AND ACCOUNTABLE SITE STATUS

[ Fibroadenoma TGLs = 2-21 ] [ Hyperplasia TGLs = 1-8 ]		Hyperplasia	Moderate
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 5-22 ]			
* Nose		Inflammation	Chronic, Mild
Note: INFLAMMATION INVOLVES PRIMARILY THE NASOLACRIMAL DUCT.			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 9-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Erosion	Minimal
[ Erosion TGLs = 12-4 ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 257

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112222

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lymph Node, Mesenteric | * Nose                     | * Ovary                   |
| * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                              |                                  |                     |
|-------------------|------------------------------|----------------------------------|---------------------|
| * Harderian Gland |                              | Hyperplasia                      | Focal, Minimal      |
| * Liver           |                              | Basophilic Focus                 |                     |
|                   |                              | Clear Cell Focus                 |                     |
|                   |                              | Infiltration Cellular            | Mixed Cell, Mild    |
|                   |                              | Mixed Cell Focus                 |                     |
| * Lung            |                              | Infiltration Cellular            | Histiocyte, Minimal |
| * Mammary Gland   |                              | Fibroadenoma                     |                     |
|                   |                              | Hyperplasia                      | Moderate            |
|                   | [ Fibroadenoma TGLs = 2-21 ] |                                  |                     |
|                   | [ Hyperplasia TGLs = 1-8 ]   |                                  |                     |
| * Pituitary Gland | Pars Distalis                | Cyst                             |                     |
|                   | Pars Intermed                | Cyst                             |                     |
|                   | Pars Distalis                | Hyperplasia                      | Focal, Moderate     |
|                   | [ Hyperplasia TGLs = 3-1 ]   |                                  |                     |
| * Skin            | SOA                          | Hyperkeratosis                   | Minimal             |
| * Spleen          |                              | Hematopoietic Cell Proliferation | Mild                |
| * Thyroid Gland   | C Cell                       | Hyperplasia                      | Minimal             |
| * Uterus          |                              | Hyperplasia                      | Cystic, Moderate    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 258

TMT: 4

SEX: Female

DAY ON TEST: 708

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                           |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                   | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus              | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland      | * Pituitary Gland         |
| * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular     | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder        | * Uterus                  |

MISSING

- \* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- |                          |                            |                                  |                  |
|--------------------------|----------------------------|----------------------------------|------------------|
| * Heart                  |                            | Cardiomyopathy                   | Mild             |
| * Kidney                 |                            | Nephropathy                      | Minimal          |
| * Liver                  |                            | Basophilic Focus                 |                  |
| * Lung                   |                            | Inflammation                     | Chronic, Minimal |
| * Lymph Node, Mesenteric |                            | Hyperplasia                      | Lymphoid, Mild   |
| * Mammary Gland          |                            | Hyperplasia                      | Mild             |
|                          | [ Hyperplasia TGLs = 1-8 ] |                                  |                  |
| * Skin                   | SOA                        | Hyperkeratosis                   | Minimal          |
| * Spleen                 |                            | Hematopoietic Cell Proliferation | Mild             |
| Vagina                   |                            | Cyst                             |                  |
|                          | [ Cyst TGLs = 2-21 ]       |                                  |                  |

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 259

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112224

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Brain		Compression	Moderate
	[ Compression TGLs = 10-1 ]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[ Basophilic Focus TGLs = 5-6 ]	Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
Lymph Node	Pancreatic	Ectasia	Mild
	Mediastinal	Hemorrhage	Minimal
	Pancreatic	Hyperplasia	Histiocytic, Moderate
	Mediastinal	Pigmentation	Mild
	Pancreatic	Pigmentation	Moderate
	[ Ectasia TGLs = 3-7 ]		
	[ Hemorrhage TGLs = 7-3 ]		
	[ Pigmentation TGLs = 7-3 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 259

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112224

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Adenoma TGLs = 8-1 ]			
* Skin		SOA	Hyperkeratosis	Minimal
		Control	Hyperkeratosis	Minimal
		Epidermis	Hyperplasia	Moderate
			Ulcer	Moderate
	[ Hyperplasia TGLs = 9-21 ]			
	[ Ulcer TGLs = 9-21 ]			
* Spleen			Hematopoietic Cell Proliferation	Moderate
			Pigmentation	Moderate
* Stomach, Forestomach			Edema	Moderate
		Epithelium	Hyperplasia	Moderate
			Inflammation	Chronic Active, Moderate
			Ulcer	Marked
	[ Ulcer TGLs = 6-4 ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 260

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112225

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   |
| * Ovary                    | * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           | * Uterus                 |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |                                  |                      |
|-------------------|--|----------------------------------|----------------------|
| * Adrenal Cortex  |  | Degeneration                     | Fatty, Marked        |
|                   | [ Degeneration TGLs = 2-10 ]             |                                  |                      |
| * Adrenal Medulla |  | Hyperplasia                      | Moderate             |
|                   |  | Pheochromocytoma Benign          |                      |
| * Heart           |  | Cardiomyopathy                   | Moderate             |
| * Kidney          |  | Nephropathy                      | Moderate             |
| * Liver           | Hepatocyte                               | Vacuolization Cytoplasmic        | Moderate             |
|                   | [ Vacuolization Cytoplasmic TGLs = 5-6 ] |                                  |                      |
| * Lung            |  | Infiltration Cellular            | Histiocyte, Moderate |
|                   |  | Pigmentation                     | Moderate             |
| * Mammary Gland   |  | Hyperplasia                      | Moderate             |
|                   | [ Hyperplasia TGLs = 1-8 ]               |                                  |                      |
| Mesentery         | Fat                                      | Necrosis                         | Marked               |
|                   | [ Necrosis TGLs = 3-21 ]                 |                                  |                      |
| * Pancreas        |  | Cyst                             |                      |
| * Pituitary Gland | Pars Distalis                            | Adenoma                          |                      |
|                   | [ Adenoma TGLs = 7-1 ]                   |                                  |                      |
| * Skin            | SOA                                      | Hyperkeratosis                   | Minimal              |
| * Spleen          |  | Hematopoietic Cell Proliferation | Moderate             |
| * Thymus          |  | Atrophy                          | Moderate             |
| * Thyroid Gland   | C Cell                                   | Adenoma                          |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 261

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112226

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Compression	Fatty, Mild Focal, Mild Moderate
* Brain	[ Compression TGLs = 5-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Clear Cell Focus	
	[ Basophilic Focus TGLs = 4-6 ]		
* Lung		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 2-21 ]		
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 3-22 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 261

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112226

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 262

**TMT:** 4  
**DOSE:** 10 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 112227

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[ Basophilic Focus TGLs = 2-6 ]		
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Cyst TGLs = 3-1 ]		
	[ Hyperplasia TGLs = 3-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 263

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112228

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        | * Uterus                   |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                                     |                                  |                  |
|-------------------|-------------------------------------|----------------------------------|------------------|
| * Adrenal Cortex  |                                     | Hyperplasia                      | Focal, Moderate  |
| * Adrenal Medulla |                                     | Pheochromocytoma Benign          |                  |
| * Brain           |                                     | Compression                      | Mild             |
|                   | [ Compression TGLs = 9-1 ]          |                                  |                  |
| * Heart           |                                     | Cardiomyopathy                   | Mild             |
| * Kidney          |                                     | Nephropathy                      | Moderate         |
|                   | [ Nephropathy TGLs = 3-5 ]          |                                  |                  |
| * Liver           |                                     | Basophilic Focus                 |                  |
|                   |                                     | Degeneration                     | Cystic, Moderate |
|                   |                                     | Hematopoietic Cell Proliferation | Minimal          |
|                   |                                     | Hemorrhage                       | Moderate         |
|                   | Kupffer Cell                        | Hyperplasia                      | Moderate         |
|                   | Hepatocyte                          | Hyperplasia                      | Focal, Moderate  |
|                   |                                     | Necrosis                         | Diffuse, Mild    |
|                   | [ Basophilic Focus TGLs = 5-6 ]     |                                  |                  |
|                   | [ Degeneration TGLs = 6-21 ]        |                                  |                  |
|                   | [ Hemorrhage TGLs = 5-6,6-21,7-22 ] |                                  |                  |
|                   | [ Hyperplasia TGLs = 5-6 ]          |                                  |                  |
|                   | [ Hyperplasia TGLs = 6-21,7-22 ]    |                                  |                  |
|                   | [ Necrosis TGLs = 5-6 ]             |                                  |                  |
| * Lung            |                                     | Edema                            | Mild             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 263

TMT: 4

SEX: Female

DAY ON TEST: 716

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112228

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [ Hemorrhage TGLs = 2-5 ]		Infiltration Cellular Inflammation Pigmentation Hemorrhage	Histiocyte, Moderate Chronic, Mild Mild Moderate
* Mammary Gland [ Hyperplasia TGLs = 1-8 ]		Hyperplasia	Mild
* Ovary		Cyst	
* Pituitary Gland [ Adenoma TGLs = 8-1 ]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 264

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112229

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Nose                   | * Ovary                    | * Parathyroid Gland       | * Salivary Glands           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                                  |                    |
|--------------------------|--|----------------------------------|--------------------|
| * Bone Marrow            |  | Hyperplasia                      | Moderate           |
| * Brain                  |  | Compression                      | Marked             |
|                          | [ Compression TGLs = 6-1 ]                     |                                  |                    |
| * Kidney                 |  | Nephropathy                      | Minimal            |
| * Liver                  |  | Basophilic Focus                 |                    |
|                          |  | Clear Cell Focus                 |                    |
|                          |  | Hepatodiaphragmatic Nodule       |                    |
|                          | Note: CLEAR CELL FOCUS IS VISIBLE ON SLIDE 22. |                                  |                    |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 3-22 ]     |                                  |                    |
| Lymph Node               | Mediastinal                                    | Pigmentation                     | Moderate           |
|                          | [ Pigmentation TGLs = 4-3 ]                    |                                  |                    |
| * Lymph Node, Mesenteric |  | Hyperplasia                      | Lymphoid, Moderate |
| * Mammary Gland          |  | Hyperplasia                      | Mild               |
| Mesentery                | Fat  | Necrosis                         | Moderate           |
|                          | [ Necrosis TGLs = 2-21 ]                       |                                  |                    |
| * Pancreas               | Acinus   | Cytoplasmic Alteration           | Mild               |
| * Pituitary Gland        | Pars Distalis                                  | Adenoma                          |                    |
|                          | [ Adenoma TGLs = 5-1 ]                         |                                  |                    |
| * Skin                   | SOA  | Hyperkeratosis                   | Minimal            |
| * Spleen                 |  | Hematopoietic Cell Proliferation | Mild               |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 264

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112229

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HEMATOPOIETIC CELL PROLIFERATION IS PRIMARILY GRANULOCYTIC.

\* Thyroid Gland

C Cell

Hyperplasia

Mild

\* Uterus

Polyp Stromal

Multiple

Note: STROMAL POLYPS ARE PRESENT ON SLIDES 7 AND 23.

[ Polyp Stromal TGLs = 1-23 ]

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 265

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112230

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone                      | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Nose                      | * Parathyroid Gland      | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |   |
|--------------------------|--|---|
| * Adrenal Cortex         | Accessory Adrenal Cortical Nodule<br>Hyperplasia           | Focal, Mild                                       |
|                          | Leukemia Mononuclear                                       |   |
| * Adrenal Medulla        | Hyperplasia  | Minimal   |
| * Bone Marrow            | Leukemia Mononuclear                                       |   |
| * Brain                  | Compression  | Moderate  |
|                          | [ Compression TGLs = 7-1 ]                                 |   |
| * Heart                  | Cardiomyopathy   | Mild  |
| * Kidney                 | Nephropathy  | Mild  |
| * Liver                  | Basophilic Focus<br>Leukemia Mononuclear                   |   |
|                          | [ Leukemia Mononuclear TGLs = 5-6 ]                        |   |
| * Lung                   | Carcinoma<br>Infiltration Cellular<br>Leukemia Mononuclear | Metastatic (Mammary Gland)<br>Histiocyte, Minimal |
| * Lymph Node, Mesenteric | Leukemia Mononuclear                                       |   |
| * Mammary Gland          | Carcinoma<br>Fibroadenoma<br>Hyperplasia                   | Marked  |

Note: MAMMARY GLAND HYPERPLASIA IS MOST SEVERE ON SLIDE 22 ADJACENT TO THE FIBROADENOMA.

[ Carcinoma TGLs = 2-21 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 265

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112230

ORGAN AND ACCOUNTABLE SITE STATUS

[ Fibroadenoma TGLs = 6-22 ]			
[ Hyperplasia TGLs = 1-8 ]			
* Ovary		Cyst	
[ Cyst TGLs = 3-7 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 8-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
[ Hematopoietic Cell Proliferation TGLs = 4-6 ]			
[ Leukemia Mononuclear TGLs = 4-6 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 266

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 537

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112231

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Clitoral Gland           |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | Peripheral Nerve         | * Salivary Glands          |
| * Skin                    | Spinal Cord                 | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                              |                    |                |
|-------------------|------------------------------|--------------------|----------------|
| * Adrenal Cortex  |                              | Adenoma            |                |
| * Brain           |                              | Compression        | Moderate       |
|                   | [ Compression TGLs = 6-1 ]   |                    |                |
| * Eye             |                              | Cataract           | Moderate       |
|                   | [ Cataract TGLs = 4-44 ]     | Retina             | Degeneration   |
|                   |                              |                    | Marked         |
| * Heart           |                              | Cardiomyopathy     | Mild           |
| * Kidney          |                              | Nephropathy        | Moderate       |
| * Liver           |                              | Basophilic Focus   |                |
|                   |                              | Clear Cell Focus   |                |
|                   |                              | Eosinophilic Focus |                |
|                   |                              | Hepatocyte         | Hyperplasia    |
|                   | [ Hyperplasia TGLs = 3-22 ]  |                    | Focal, Minimal |
| * Lung            |                              | Hemorrhage         | Minimal        |
| * Mammary Gland   |                              | Fibroadenoma       |                |
|                   |                              | Hyperplasia        | Moderate       |
|                   | [ Fibroadenoma TGLs = 2-21 ] |                    |                |
|                   | [ Hyperplasia TGLs = 1-8 ]   |                    |                |
| * Pituitary Gland | Pars Distalis                | Adenoma            |                |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

---

**ANIMAL NUM:** 266

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 537

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112231

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 5-1 ]

\* Spleen

Pigmentation

Moderate

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 267

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 591

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112232

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Parathyroid Gland	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Bone Marrow		Angiectasis	Moderate
		Hyperplasia	Mild
* Clitoral Gland		Hyperplasia	Minimal
	[ Hyperplasia TGLs = 1-8 ]		
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	Note: MIXED CELL FOCUS IS ON SLIDE 23.		
	[ Hepatodiaphragmatic Nodule TGLs = 8-23 ]		
* Lung		Schwannoma Malignant	Metastatic (Salivary Glands)
	[ Schwannoma Malignant TGLs = 10-2,11-24 ]		
Lymph Node		Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Moderate
	Mediastinal	Schwannoma Malignant	Metastatic (Salivary Glands)
	Mediastinal		
	[ Hyperplasia TGLs = 9-3 ]		
	[ Pigmentation TGLs = 9-3 ]		
	[ Schwannoma Malignant TGLs = 9-3 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 267

TMT: 4

SEX: Female

DAY ON TEST: 591

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112232

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Chronic, Moderate
Note: CHRONIC INFLAMMATION IS IN SECTION OF MAMMARY GLAND ADJACENT TO CLITORAL GLAND.			
	[ Hyperplasia TGLs = 3-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 6-22 ]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	[ Cyst TGLs = 13-1 ]		
* Salivary Glands		Schwannoma Malignant	
	[ Schwannoma Malignant TGLs = 4-21 ]		
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
	[ Hyperplasia TGLs = 12-4 ]		
	[ Inflammation TGLs = 12-4 ]		
	[ Ulcer TGLs = 12-4 ]		
* Stomach, Glandular		Edema	Mild

PRIMARY CAUSE OF DEATH - Salivary Glands Schwannoma Malignant

Animal Note: MODERATE ACCUMULATION OF LEUKOCYTES AND MUCUS IN VAGINAL LUMEN; CONSIDERED PHYSIOLOGICAL CHANGE (METESTRUS) AND NOT TABULATED.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 268

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112233

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Hyperplasia	Focal, Minimal
* Clitoral Gland		Cyst	
		Inflammation	Chronic, Moderate
	[ Cyst TGLs = 2-8 ]		
	[ Inflammation TGLs = 2-8 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
* Ovary		Cyst	
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 3-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 269

TMT: 4

SEX: Female

DAY ON TEST: 642

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Ileum                      \* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Mixed Cell Focus	
	[ Angiectasis TGLs = 4-23 ]		
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 1-21,2-22 ]		
	[ Hyperplasia TGLs = 3-8 ]		
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 270

TMT: 4

SEX: Female

DAY ON TEST: 632

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Clitoral Gland           |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Salivary Glands        | * Skin                     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Esophagus

OBSERVATIONS

- |                  |                                   |                     |
|------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | Accessory Adrenal Cortical Nodule |                     |
|                  | Degeneration                      | Fatty, Minimal      |
|                  | Hypertrophy                       | Focal, Minimal      |
| * Bone Marrow    | Hyperplasia                       | Mild                |
| * Heart          | Cardiomyopathy                    | Minimal             |
| * Kidney         | Nephropathy                       | Minimal             |
| * Liver          | Basophilic Focus                  |                     |
|                  | Infiltration Cellular             | Mixed Cell, Minimal |
|                  | Mixed Cell Focus                  |                     |
| * Lung           | Metaplasia                        | Osseous, Minimal    |
| * Mammary Gland  | Fibroadenoma                      |                     |
|                  | Hyperplasia                       | Minimal             |

Note: GLANDULAR AREAS OF FIBROADENOMA ON SLIDE 21 HAVE UNDERGONE MILD DYSPLASIA.

[ Fibroadenoma TGLs = 1-21,1-21-1 ]

[ Hyperplasia TGLs = 2-8 ]

Mesentery

Fat

Necrosis

Marked

[ Necrosis TGLs = 3-22 ]

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 270

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112235

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
Note: MARKED EOSINOPHIL INFILTRATE WITHIN SQUAMOUS PAPILLOMA. [ Squamous Cell Papilloma TGLs = 5-23 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Fat Necrosis

- Stomach, Forestomach Squamous Cell Papilloma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 271

TMT: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Degeneration Hyperplasia Hypertrophy	Fatty, Minimal Focal, Mild Focal, Minimal
* Brain [ Compression TGLs = 9-1 ]	Compression	Moderate
* Clitoral Gland	Adenoma	
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus Mixed Cell Focus	
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric	Ectasia Hemorrhage Hyperplasia Pigmentation	Mild Minimal Histiocytic, Mild Moderate
[ Ectasia TGLs = 5-22 ]		
[ Hemorrhage TGLs = 5-22 ]		
[ Pigmentation TGLs = 5-22 ]		
* Mammary Gland	Fibroadenoma Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 271

TMT: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112236

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Fibroadenoma TGLs = 2-21 ]			
	[ Hyperplasia TGLs = 1-8 ]			
* Pituitary Gland		Pars Distalis	Adenoma	
	[ Adenoma TGLs = 8-1 ]			
* Skin		Epidermis	Hyperplasia	Moderate
			Inflammation	Chronic, Moderate
			Ulcer	Moderate
	[ Hyperplasia TGLs = 6-23,7-24 ]			
	[ Inflammation TGLs = 6-23 ]			
	[ Ulcer TGLs = 7-24 ]			
* Spleen			Hematopoietic Cell Proliferation	Minimal
* Uterus			Polyp Stromal	
	[ Polyp Stromal TGLs = 3-25 ]			



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 272

TMT: 4

SEX: Female

DAY ON TEST: 578

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                           |                             |                          |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla        | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus              | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic     | * Lung                    | * Nose                      | * Ovary                  |
| * Pancreas               | * Parathyroid Gland       | * Salivary Glands           | * Spleen                 |
| * Stomach, Forestomach   | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                | * Urinary Bladder         |                             |                          |

MISSING

- \* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- |                          |                                 |                  |                    |
|--------------------------|---------------------------------|------------------|--------------------|
| * Adrenal Cortex         |                                 | Degeneration     | Fatty, Minimal     |
|                          |                                 | Hypertrophy      | Focal, Minimal     |
| * Brain                  |                                 | Compression      | Mild               |
|                          | [ Compression TGLs = 7-1 ]      |                  |                    |
| * Heart                  |                                 | Cardiomyopathy   | Mild               |
| * Kidney                 |                                 | Nephropathy      | Minimal            |
| * Liver                  |                                 | Basophilic Focus |                    |
| * Lymph Node, Mesenteric |                                 | Hyperplasia      | Lymphoid, Moderate |
| * Mammary Gland          |                                 | Hyperplasia      | Marked             |
|                          |                                 | Inflammation     | Chronic, Marked    |
|                          | [ Hyperplasia TGLs = 1-8,3-24 ] |                  |                    |
|                          | [ Inflammation TGLs = 1-8 ]     |                  |                    |
| Mesentery                | Fat                             | Necrosis         | Moderate           |
|                          | [ Necrosis TGLs = 4-21,9-22 ]   |                  |                    |
| * Pituitary Gland        | Pars Distalis                   | Adenoma          |                    |
|                          | [ Adenoma TGLs = 8-1 ]          |                  |                    |
| * Skin                   |                                 | Hyperkeratosis   | Marked             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 272

TMT: 4

SEX: Female

DAY ON TEST: 578

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112237

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Epidermis	Hyperplasia	Moderate
	[ Hyperkeratosis TGLs = 2-23 ]		
	[ Hyperplasia TGLs = 2-23 ]		
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLs = 5-7 ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 273

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112238

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
	[ Compression TGLs = 8-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[ Basophilic Focus TGLs = 5-6 ]		
	[ Leukemia Mononuclear TGLs = 5-6 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Carcinoma	
		Hyperplasia	Moderate
	[ Carcinoma TGLs = 2-21 ]		
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery		Fat	
	[ Necrosis TGLs = 6-22 ]	Necrosis	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland		Adenoma	
	[ Adenoma TGLs = 7-1 ]		
	Pars Distalis		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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**ANIMAL NUM:** 273

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112238

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLs = 3-23 ]		

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 274

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 624

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112239

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric | * Nose                     | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                            |               |                                  |          |
|----------------------------|---------------|----------------------------------|----------|
| * Brain                    |               | Compression                      | Moderate |
| [ Compression TGLs = 3-1 ] |               |                                  |          |
| * Heart                    |               | Cardiomyopathy                   | Minimal  |
| * Kidney                   |               | Nephropathy                      | Mild     |
| * Liver                    |               | Basophilic Focus                 |          |
|                            | Bile Duct     | Hyperplasia                      | Mild     |
| * Mammary Gland            |               | Adenoma                          |          |
| [ Adenoma TGLs = 2-21 ]    |               | Hyperplasia                      | Moderate |
| [ Hyperplasia TGLs = 1-8 ] |               |                                  |          |
| * Pituitary Gland          | Pars Distalis | Adenoma                          |          |
| [ Adenoma TGLs = 4-1 ]     |               |                                  |          |
| * Spleen                   |               | Hematopoietic Cell Proliferation | Mild     |
|                            |               | Pigmentation                     | Moderate |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 275

**TMT:** 4  
**DOSE:** 10 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 562  
**HISTO:** 112240

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Clitoral Gland           |
| * Esophagus               | * Eye                       | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Nose                     |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                        |                                   |         |
|----------------------|------------------------|-----------------------------------|---------|
| * Adrenal Cortex     |                        | Accessory Adrenal Cortical Nodule |         |
| * Bone Marrow        |                        | Leukemia Mononuclear              |         |
| * Harderian Gland    |                        | Adenoma                           |         |
| * Heart              |                        | Thrombosis                        | Mild    |
| * Kidney             |                        | Nephropathy                       | Minimal |
| * Liver              |                        | Leukemia Mononuclear              |         |
|                      | Centrilobular          | Necrosis                          | Mild    |
|                      | Kupffer Cell           | Pigmentation                      | Mild    |
| * Mammary Gland      |                        | Hyperplasia                       | Mild    |
| * Ovary              |                        | Cyst                              |         |
|                      | [ Cyst TGLs = 2-7 ]    |                                   |         |
| * Pancreas           |                        | Cyst                              |         |
| * Pituitary Gland    | Pars Distalis          | Cyst                              |         |
| * Spleen             |                        | Leukemia Mononuclear              |         |
| * Stomach, Glandular |                        | Erosion                           | Mild    |
|                      | [ Erosion TGLs = 4-4 ] |                                   |         |

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 276

**TMT:** 4  
**DOSE:** 10 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 493  
**HISTO:** 112241

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone Marrow             | * Brain                     | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | Peripheral Nerve          | * Salivary Glands           | Skeletal Muscle          |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |               |                                   |             |
|--|---------------|-----------------------------------|-------------|
| * Adrenal Cortex   |               | Accessory Adrenal Cortical Nodule |             |
| * Bone   |               | Osteosarcoma                      |             |
| Note: OSTEOSARCOMA INVOLVES VERTEBRA AND IS ON SLIDE 41 (SPINAL CORD SECTION).   |               |                                   |             |
| * Heart  |               | Cardiomyopathy                    | Minimal     |
| * Kidney   |               | Nephropathy                       | Mild        |
| * Liver  |               | Hepatodiaphragmatic Nodule        |             |
| [ Hepatodiaphragmatic Nodule   | TGLs = 2-21 ] |                                   |             |
| Lymph Node   | Mediastinal   | Hemorrhage                        | Moderate    |
|  | Mediastinal   | Pigmentation                      | Moderate    |
| [ Hemorrhage   | TGLs = 3-3 ]  |                                   |             |
| [ Pigmentation   | TGLs = 3-3 ]  |                                   |             |
| * Pituitary Gland  | Pars Distalis | Cyst                              |             |
|  | Pars Distalis | Hyperplasia                       | Focal, Mild |
| Spinal Cord  |               | Atrophy                           | Moderate    |
| Note: "ATROPHY" IS ACTUALLY COMPRESSION OF SPINAL CORD BY THE OSTEOSARCOMA; "COMPRESSION" UNAVAILABLE FOR SPINAL CORD ON TDMS. |               |                                   |             |
| * Spleen   |               | Hematopoietic Cell Proliferation  | Mild        |
|  |               | Pigmentation                      | Moderate    |
| * Uterus   |               | Polyp Stromal                     |             |
| [ Polyp Stromal  | TGLs = 1-7 ]  |                                   |             |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 276

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 493

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112241

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 277

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 726

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112242

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Clitoral Gland           |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Nose                     |
| * Parathyroid Gland       | * Salivary Glands           | * Stomach, Glandular     | * Thymus                   |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                            |                                   |                      |
|-------------------|----------------------------|-----------------------------------|----------------------|
| * Adrenal Cortex  |                            | Accessory Adrenal Cortical Nodule |                      |
|                   |                            | Degeneration                      | Fatty, Mild          |
|                   |                            | Hyperplasia                       | Focal, Minimal       |
| * Brain           |                            | Compression                       | Moderate             |
|                   |                            | Hemorrhage                        | Moderate             |
|                   |                            | Necrosis                          | Moderate             |
|                   | [ Compression TGLs = 4-1 ] |                                   |                      |
| * Eye             |                            | Inflammation                      | Acute, Moderate      |
| * Heart           |                            | Cardiomyopathy                    | Mild                 |
| * Kidney          |                            | Nephropathy                       | Moderate             |
|                   | [ Nephropathy TGLs = 1-5 ] |                                   |                      |
| * Liver           |                            | Basophilic Focus                  |                      |
|                   |                            | Infiltration Cellular             | Mixed Cell, Moderate |
|                   |                            | Necrosis                          | Focal, Minimal       |
| * Mammary Gland   |                            | Hyperplasia                       | Moderate             |
| * Ovary           |                            | Cyst                              |                      |
| * Pancreas        |                            | Atrophy                           | Mild                 |
|                   | Acinus                     | Cytoplasmic Alteration            | Mild                 |
| * Pituitary Gland | Pars Distalis              | Adenoma                           |                      |
|                   | [ Adenoma TGLs = 3-1 ]     |                                   |                      |
| * Skin            |                            | Basal Cell Adenoma                |                      |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 277

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 726

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112242

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Basal Cell Adenoma TGLs = 2-21 ]

\* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

\* Stomach, Forestomach

Edema

Moderate

Ulcer

Marked

[ Ulcer TGLs = 5-4 ]

\* Thyroid Gland

C Cell

Hyperplasia

Moderate

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 278

TMT: 4  
 DOSE: 10 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 112243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    | * Parathyroid Gland       |
| * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |                                   |                                   |                     |
|-------------------|-----------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex  |                                   | Accessory Adrenal Cortical Nodule |                     |
|                   |                                   | Adenoma                           |                     |
| * Kidney          |                                   | Nephropathy                       | Minimal             |
| * Liver           |                                   | Basophilic Focus                  |                     |
|                   |                                   | Eosinophilic Focus                |                     |
|                   | [ Basophilic Focus TGLs = 4-6 ]   |                                   |                     |
|                   | [ Eosinophilic Focus TGLs = 4-6 ] |                                   |                     |
| * Lung            |                                   | Infiltration Cellular             | Histiocyte, Minimal |
| * Mammary Gland   |                                   | Fibroadenoma                      |                     |
|                   |                                   | Hyperplasia                       | Marked              |
|                   | [ Fibroadenoma TGLs = 6-22 ]      |                                   |                     |
|                   | [ Hyperplasia TGLs = 1-8,2-21 ]   |                                   |                     |
| * Pancreas        |                                   | Cyst                              |                     |
| * Pituitary Gland | Pars Distalis                     | Adenoma                           |                     |
|                   | Pars Intermed                     | Angiectasis                       | Mild                |
|                   | Pars Distalis                     | Cyst                              |                     |
|                   | [ Adenoma TGLs = 5-1 ]            |                                   |                     |
|                   | [ Angiectasis TGLs = 5-1 ]        |                                   |                     |
| * Skin            | SOA                               | Hyperkeratosis                    | Minimal             |
| * Spleen          |                                   | Hematopoietic Cell Proliferation  | Mild                |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 278

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112243

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

[ Hyperplasia TGLs = 3-7 ]

Hyperplasia

Cystic, Moderate

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 279

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112244

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	Multiple
	[ Adenoma TGLs = 1-8 ]		
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[ Leukemia Mononuclear TGLs = 7-6 ]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 3-21,4-22 ]		
	[ Hyperplasia TGLs = 2-8 ]		
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Cyst TGLs = 6-1 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 279

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112244

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
[ Hematopoietic Cell Proliferation TGLs = 5-6 ]			
[ Leukemia Mononuclear TGLs = 5-6 ]			

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 280

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112245

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Brain		Compression	Minimal
		Necrosis	Minimal
	[ Compression TGLs = 6-1 ]		
	[ Necrosis TGLs = 6-1 ]		
* Eye		Cataract	Moderate
		Degeneration	Marked
	[ Cataract TGLs = 7-44 ]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Marked
	[ Inflammation TGLs = 3-5 ]		
	[ Nephropathy TGLs = 3-5 ]		
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[ Angiectasis TGLs = 8-23 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 280

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112245

ORGAN AND ACCOUNTABLE SITE STATUS

[ Basophilic Focus TGLs = 8-23 ]			
[ Clear Cell Focus TGLs = 8-23 ]			
[ Vacuolization Cytoplasmic TGLs = 8-23 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLs = 1-21 ]			
[ Hyperplasia TGLs = 2-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 5-1 ]			
* Salivary Glands		Atrophy	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
	Control Epider	Hyperplasia	Minimal
		Ulcer	Marked
[ Hyperplasia TGLs = 4-22 ]			
[ Ulcer TGLs = 4-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 281

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112246

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Clitoral Gland         |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Nose                    | * Parathyroid Gland         | * Salivary Glands        | * Skin                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland          |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                          |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Jejunum

**OBSERVATIONS**

- |                          |                            |                      |                 |
|--------------------------|----------------------------|----------------------|-----------------|
| * Adrenal Cortex         |                            | Degeneration         | Fatty, Minimal  |
|                          |                            | Hypertrophy          | Focal, Moderate |
|                          |                            | Leukemia Mononuclear |                 |
| * Bone Marrow            |                            | Leukemia Mononuclear |                 |
| * Eye                    | Retina                     | Degeneration         | Mild            |
| * Heart                  |                            | Cardiomyopathy       | Minimal         |
| * Kidney                 |                            | Leukemia Mononuclear |                 |
|                          |                            | Nephropathy          | Minimal         |
| * Liver                  |                            | Basophilic Focus     |                 |
|                          |                            | Leukemia Mononuclear |                 |
| * Lung                   |                            | Leukemia Mononuclear |                 |
| * Lymph Node, Mesenteric |                            | Leukemia Mononuclear |                 |
| * Mammary Gland          |                            | Hyperplasia          | Mild            |
|                          | [ Hyperplasia TGLs = 2-8 ] |                      |                 |
| * Ovary                  |                            | Leukemia Mononuclear |                 |
| * Pancreas               |                            | Atrophy              | Mild            |
| * Pituitary Gland        | Pars Distalis              | Angiectasis          | Marked          |
|                          | [ Angiectasis TGLs = 1-1 ] |                      |                 |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 281

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112246

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Leukemia Mononuclear

---

**PRIMARY CAUSE OF DEATH**

- Spleen Leukemia Mononuclear

---

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 282

TMT: 4

SEX: Female

DAY ON TEST: 686

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Eye
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Atrophy	Moderate
	Degeneration	Fatty, Moderate
	Leukemia Mononuclear	
Note: FOCAL AREA OF FATTY DEGENERATION CONTAINS PIGMENT-BEARING CELLS AND INCREASED STROMA.		
* Bone Marrow	Leukemia Mononuclear	
* Brain	Compression	Moderate
[ Compression TGLs = 8-1 ]		
* Clitoral Gland	Inflammation	Chronic, Mild
* Harderian Gland	Atrophy	Mild
	Inflammation	Chronic, Mild
* Heart	Leukemia Mononuclear	
* Intestine Large, Cecum	Edema	Moderate
* Kidney	Leukemia Mononuclear	
* Liver	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 4-6 ]		
* Lung	Leukemia Mononuclear	
Lymph Node	Mediastinal	
[ Leukemia Mononuclear TGLs = 7-3 ]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 6-5 ]		
* Mammary Gland	Hyperplasia	Mild
[ Hyperplasia TGLs = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 282

TMT: 4

SEX: Female

DAY ON TEST: 686

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112247

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
[ Adenoma TGLs = 9-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Control	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 3-6 ]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 283

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 557

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112248

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                          |                           |                             |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla        | * Bone                    | * Bone Marrow               |
| * Esophagus                | * Eye                    | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                  | * Liver                     |
| * Lymph Node, Mesenteric   | * Nose                   | * Ovary                   | * Parathyroid Gland         |
| * Salivary Glands          | * Skin                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                   | * Thyroid Gland          | * Trachea                 | * Urinary Bladder           |
| * Uterus                   |                          |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Ileum

**OBSERVATIONS**

- |                   |                             |              |                   |
|-------------------|-----------------------------|--------------|-------------------|
| * Brain           |                             | Compression  | Moderate          |
|                   | [ Compression TGLs = 5-1 ]  |              |                   |
| * Clitoral Gland  |                             | Inflammation | Chronic, Moderate |
|                   | [ Inflammation TGLs = 1-8 ] |              |                   |
| * Lung            |                             | Hemorrhage   | Mild              |
|                   | [ Hemorrhage TGLs = 4-2 ]   |              |                   |
| * Mammary Gland   |                             | Hyperplasia  | Mild              |
|                   | [ Hyperplasia TGLs = 2-8 ]  |              |                   |
| Mesentery         |                             | Necrosis     | Moderate          |
|                   | [ Necrosis TGLs = 3-21 ]    |              |                   |
| * Pancreas        |                             | Atrophy      | Minimal           |
|                   |                             | Cyst         |                   |
| * Pituitary Gland |                             | Adenoma      |                   |
|                   | [ Adenoma TGLs = 6-1 ]      |              |                   |
| * Spleen          |                             | Pigmentation | Moderate          |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 284

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112249

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Esophagus	* Lymph Node, Mandibular
-------------	--------------------------

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Carcinoma	Fatty, Minimal Focal, Minimal
* Clitoral Gland [ Carcinoma TGLs = 1-21 ]		Cardiomyopathy Nephropathy Basophilic Focus Hepatodiaphragmatic Nodule	Mild Minimal
* Heart			
* Kidney			
* Liver [ Hepatodiaphragmatic Nodule TGLs = 7-25 ]			
* Lung		Pigmentation	Mild
* Lymph Node, Mesenteric [ Hemorrhage TGLs = 6-24 ] [ Hyperplasia TGLs = 5-5 ] [ Pigmentation TGLs = 6-24 ]		Hemorrhage Hyperplasia Pigmentation	Mild Lymphoid, Mild Moderate
* Mammary Gland		Hyperplasia	Moderate
Mesentery [ Necrosis TGLs = 2-22,4-23 ]	Fat	Necrosis	Moderate
* Pancreas		Cyst	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 284

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112249

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Pituitary Gland

Pars Distalis

Cyst

\* Spleen

Hematopoietic Cell Proliferation

Mild

\* Uterus

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLs = 3-7 ]

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 285

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112250

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	Mesentery
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Brain		Compression	Moderate
	[ Compression TGLs = 7-1 ]		
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLs = 1-21,3-22 ]	Hyperplasia	Marked
	[ Hyperplasia TGLs = 2-8,8-24 ]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 285

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112250

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Mild

---

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 286

TMT: 4

SEX: Female

DAY ON TEST: 515

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular
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INSUFFICIENT TISSUE

\* Esophagus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
	[ Basophilic Focus TGLs = 2-6 ]		
	[ Mixed Cell Focus TGLs = 2-6 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 1-21 ]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	[ Adenoma TGLs = 3-1 ]		
	[ Angiectasis TGLs = 3-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Mild
	[ Erosion TGLs = 4-4 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 286

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 515

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112251

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

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**PRIMARY CAUSE OF DEATH**

- Mammary Gland Fibroadenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 287

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 520

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112252

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lymph Node, Mesenteric | * Nose                     | * Ovary                   |
| * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |  |               |                                  |                     |
|--|---------------|----------------------------------|---------------------|
| * Brain                                    |               | Compression                      | Marked              |
| [ Compression TGLs = 6-1 ]                 |               |                                  |                     |
| * Liver                                    |               | Hepatodiaphragmatic Nodule       |                     |
| [ Hepatodiaphragmatic Nodule TGLs = 5-22 ] |               |                                  |                     |
| * Lung                                     |               | Infiltration Cellular            | Histiocyte, Minimal |
| Lymph Node                                 | Pancreatic    | Hemorrhage                       | Minimal             |
|  | Pancreatic    | Pigmentation                     | Moderate            |
| [ Hemorrhage TGLs = 3-7 ]                  |               |                                  |                     |
| [ Pigmentation TGLs = 3-7 ]                |               |                                  |                     |
| * Mammary Gland                            |               | Hyperplasia                      | Moderate            |
| [ Hyperplasia TGLs = 1-8 ]                 |               |                                  |                     |
| Mesentery                                  | Fat           | Necrosis                         | Mild                |
| [ Necrosis TGLs = 4-21 ]                   |               |                                  |                     |
| * Pituitary Gland                          | Pars Distalis | Adenoma                          |                     |
| [ Adenoma TGLs = 7-1 ]                     |               |                                  |                     |
| * Spleen                                   |               | Hematopoietic Cell Proliferation | Mild                |
|  |               | Pigmentation                     | Moderate            |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 288

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 520

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112253

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Clitoral Gland           |
| * Esophagus               | * Eye                       | * Harderian Gland        | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Nose                     |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Lymph Node, Mesenteric

**OBSERVATIONS**

- |                          |                              |                                   |                |
|--------------------------|------------------------------|-----------------------------------|----------------|
| * Adrenal Cortex         |                              | Accessory Adrenal Cortical Nodule |                |
| * Bone Marrow            |                              | Hyperplasia                       | Marked         |
| * Heart                  |                              | Cardiomyopathy                    | Minimal        |
| * Intestine Large, Cecum |                              | Edema                             | Mild           |
| * Liver                  |                              | Basophilic Focus                  |                |
| Lymph Node               | Mediastinal                  | Ectasia                           | Moderate       |
|                          | Mediastinal                  | Hyperplasia                       | Lymphoid, Mild |
|                          | [ Ectasia TGLs = 4-3 ]       |                                   |                |
|                          | [ Hyperplasia TGLs = 4-3 ]   |                                   |                |
| * Mammary Gland          |                              | Fibroadenoma                      |                |
|                          |                              | Hyperplasia                       | Moderate       |
|                          | [ Fibroadenoma TGLs = 2-21 ] |                                   |                |
|                          | [ Hyperplasia TGLs = 1-8 ]   |                                   |                |
| * Ovary                  |                              | Cyst                              |                |
|                          | [ Cyst TGLs = 3-7 ]          |                                   |                |
| * Pancreas               |                              | Cyst                              |                |
| * Pituitary Gland        | Pars Distalis                | Adenoma                           |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 288

TMT: 4

SEX: Female

DAY ON TEST: 520

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112253

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLs = 5-1 ]

\* Spleen

Hematopoietic Cell Proliferation

Marked

\* Thyroid Gland

Follicle

Cyst

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 289

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 616

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112254

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Nose                   |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           | * Uterus                 |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                                   |                      |
|--------------------------|--|-----------------------------------|----------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |                      |
| * Brain                  |  | Compression                       | Moderate             |
|                          |  | Hemorrhage                        | Marked               |
|                          |  | Necrosis                          | Mild                 |
|                          | [ Compression TGLs = 5-1 ]                             |                                   |                      |
|                          | [ Hemorrhage TGLs = 5-1 ]                              |                                   |                      |
|                          | [ Necrosis TGLs = 5-1 ]                                |                                   |                      |
| * Eye                    |  | Inflammation                      | Chronic Active, Mild |
| * Kidney                 |  | Nephropathy                       | Moderate             |
| * Liver                  |  | Basophilic Focus                  |                      |
|                          |  | Infiltration Cellular             | Mixed Cell, Minimal  |
|                          | [ Basophilic Focus TGLs = 3-6 ]                        |                                   |                      |
| * Lymph Node, Mesenteric |  | Hyperplasia                       | Lymphoid, Mild       |
| * Mammary Gland          |  | Carcinoma                         | Multiple             |
|                          |  | Hyperplasia                       | Mild                 |
|                          | Note: MAMMARY GLAND CARCINOMAS ARE ON SLIDES 8 AND 21. |                                   |                      |
|                          | [ Carcinoma TGLs = 1-21 ]                              |                                   |                      |
|                          | [ Hyperplasia TGLs = 2-8 ]                             |                                   |                      |
| * Pituitary Gland        | Pars Distalis  | Adenoma                           |                      |
|                          | [ Adenoma TGLs = 4-1 ]                                 |                                   |                      |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 289

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 616

**DOSE:** 10 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112254

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Mild

---

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Carcinoma

---



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 290

TMT: 4

SEX: Female

DAY ON TEST: 609

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                           |                             |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla        | * Bone                    | * Bone Marrow               |
| * Clitoral Gland         | * Esophagus              | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Lung                    | * Nose                      |
| * Ovary                  | * Parathyroid Gland      | * Salivary Glands         | * Skin                      |
| * Stomach, Glandular     | * Thymus                 | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                 |                           |                             |

MISSING

- \* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- |                          |                            |                           |                |
|--------------------------|----------------------------|---------------------------|----------------|
| * Brain                  |                            | Compression               | Moderate       |
|                          |                            | Hemorrhage                | Mild           |
|                          | [ Compression TGLs = 2-1 ] |                           |                |
| * Heart                  |                            | Cardiomyopathy            | Minimal        |
| * Kidney                 |                            | Nephropathy               | Mild           |
| * Liver                  | Hepatocyte                 | Vacuolization Cytoplasmic | Marked         |
| * Lymph Node, Mesenteric |                            | Hemorrhage                | Minimal        |
|                          |                            | Hyperplasia               | Lymphoid, Mild |
| * Mammary Gland          |                            | Hyperplasia               | Marked         |
|                          | [ Hyperplasia TGLs = 1-8 ] |                           |                |
| * Pancreas               |                            | Cyst                      |                |
| * Pituitary Gland        | Pars Distalis              | Adenoma                   |                |
|                          | [ Adenoma TGLs = 3-1 ]     |                           |                |
| * Spleen                 |                            | Pigmentation              | Moderate       |
| * Stomach, Forestomach   | Epithelium                 | Hyperplasia               | Marked         |
|                          |                            | Ulcer                     | Marked         |
|                          | [ Ulcer TGLs = 4-4 ]       |                           |                |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 290

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 609

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112255

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 291

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112256

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
[ Basophilic Focus TGLs = 6-6 ]			
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
[ Hemorrhage TGLs = 7-3 ]			
[ Hyperplasia TGLs = 7-3 ]			
[ Pigmentation TGLs = 7-3 ]			
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[ Fibroadenoma TGLs = 3-21,8-22,9-23 ]			
[ Hyperplasia TGLs = 2-8 ]			
* Ovary		Cyst	
[ Cyst TGLs = 4-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[ Adenoma TGLs = 10-1 ]			
* Salivary Glands		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 291

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112256

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin	Control	Hyperkeratosis	Minimal
	Control Epider	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Metaplasia	Squamous, Moderate
* Uterus		Polyp Stromal	

Note: STROMAL POLYP ON SLIDE 24 IS NECROTIC.

[ Polyp Stromal TGLs = 5-24 ]

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 292

TMT: 4

SEX: Female

DAY ON TEST: 733

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Minimal
[ Compression TGLs = 4-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Minimal
[ Hemorrhage TGLs = 2-2 ]			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[ Adenoma TGLs = 3-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 293

TMT: 4

SEX: Female

DAY ON TEST: 716

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Compression	Fatty, Moderate Focal, Moderate Marked
* Brain	[ Compression TGLs = 9-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation Nephropathy	Chronic, Mild Moderate
* Liver	[ Clear Cell Focus TGLs = 6-23 ] [ Mixed Cell Focus TGLs = 5-6 ]	Basophilic Focus Clear Cell Focus Mixed Cell Focus	
* Lung		Infiltration Cellular Metaplasia	Histiocyte, Minimal Osseous, Minimal
Lymph Node	Mediastinal Mediastinal Mediastinal	Hemorrhage Hyperplasia Pigmentation	Moderate Lymphoid, Mild Moderate
	[ Hemorrhage TGLs = 8-24 ] [ Hyperplasia TGLs = 8-24 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 293

TMT: 4

SEX: Female

DAY ON TEST: 716

DOSE: 10 MG/KG

DISP: Moribund Sacrifice

HISTO: 112258

ORGAN AND ACCOUNTABLE SITE STATUS

[ Pigmentation TGLs = 8-24 ]  
\* Mammary Gland Fibroadenoma Multiple  
Hyperplasia Marked  
[ Fibroadenoma TGLs = 2-21,3-22 ]  
[ Hyperplasia TGLs = 1-8 ]  
\* Pituitary Gland Pars Distalis Adenoma  
Note: PITUITARY GLAND TUMOR IS MODERATELY ANAPLASTIC BUT IS DIAGNOSED AS ADENOMA IN THE ABSENCE OF ANY EVIDENCE OF INVASION OR METASTASIS.  
[ Adenoma TGLs = 10-1 ]  
\* Spleen Hematopoietic Cell Proliferation Mild  
\* Stomach, Forestomach Edema Moderate  
Hyperplasia Mild  
\* Thyroid Gland C Cell Hyperplasia Minimal  
\* Uterus Polyp Stromal  
[ Polyp Stromal TGLs = 4-7 ]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 294

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112259

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Mild
[ Compression TGLs = 5-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLs = 3-23 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Carcinoma	
		Hyperplasia	Moderate
[ Carcinoma TGLs = 1-21 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLs = 2-22 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 295

TMT: 4

SEX: Female

DAY ON TEST: 547

DOSE: 10 MG/KG

DISP: Natural Death

HISTO: 112260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Minimal
[ Compression TGLs = 3-1 ]			
* Kidney		Cyst	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 2-1 ]			
* Spleen		Pigmentation	Marked
* Stomach, Forestomach		Edema	Mild
		Ulcer	Marked
[ Ulcer TGLs = 1-4,1-21 ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 296

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Mild
	Hypertrophy	Focal, Mild
	Carcinoma	
* Clitoral Gland [ Carcinoma TGLs = 2-25 ]		
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Eosinophilic Focus	
	Infiltration Cellular	Mixed Cell, Minimal
	Leukemia Mononuclear	
[ Eosinophilic Focus TGLs = 8-26 ]		
* Lung	Hemorrhage	Minimal
	Infiltration Cellular	Histiocyte, Minimal
	Inflammation	Chronic, Minimal
	Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
* Mammary Gland	Fibroadenoma	Multiple
	Hyperplasia	Mild
[ Fibroadenoma TGLs = 3-21,4-22 ]		
[ Hyperplasia TGLs = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 296

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 10 MG/KG

DISP: Terminal Sacrifice

HISTO: 112261

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [ Necrosis TGLs = 5-23 ]	Fat	Necrosis	Moderate
* Pancreas		Cyst	
* Pituitary Gland [ Cyst TGLs = 7-1 ]	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild

Animal Note: THE MONONUCLEAR LEUKEMIA APPEARS TO BE IN AN EARLY STAGE.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 297

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 615

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112262

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Ovary                     |
| * Parathyroid Gland      | * Salivary Glands          | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   | Vagina                    |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                                      |                                       |                          |
|-------------------|--------------------------------------|---------------------------------------|--------------------------|
| * Adrenal Cortex  |                                      | Degeneration<br>Leukemia Mononuclear  | Fatty, Minimal           |
|                   | [ Leukemia Mononuclear TGLs = 7-10 ] |                                       |                          |
| * Adrenal Medulla |                                      | Hyperplasia                           | Minimal                  |
| * Bone            | Femur                                | Osteopetrosis                         | Moderate                 |
| * Bone Marrow     |                                      | Leukemia Mononuclear<br>Myelofibrosis | Mild                     |
|                   | [ Carcinoma TGLs = 2-21 ]            | Carcinoma                             |                          |
| * Heart           |                                      | Cardiomyopathy<br>Thrombosis          | Moderate<br>Moderate     |
|                   | [ Cardiomyopathy TGLs = 11-12 ]      |                                       |                          |
|                   | [ Thrombosis TGLs = 11-12 ]          |                                       |                          |
| * Kidney          |                                      | Inflammation<br>Leukemia Mononuclear  | Chronic Active, Moderate |
|                   | [ Inflammation TGLs = 6-5 ]          |                                       |                          |
|                   | [ Leukemia Mononuclear TGLs = 6-5 ]  |                                       |                          |
| * Liver           | Bile Duct                            | Hyperplasia                           | Moderate                 |
|                   | Centrilobular                        | Leukemia Mononuclear<br>Necrosis      | Moderate                 |
|                   | [ Hyperplasia TGLs = 8-6 ]           |                                       |                          |
|                   | [ Leukemia Mononuclear TGLs = 8-6 ]  |                                       |                          |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 297

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 615

**DOSE:** 10 MG/KG

**DISP:** Natural Death

**HISTO:** 112262

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Necrosis TGLs = 8-6 ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 10-2 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 16-23 ]		
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLs = 1-8 ]		
* Nose		Foreign Body	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	
	[ Cyst TGLs = 13-1 ]		
* Skin	Control	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[ Leukemia Mononuclear TGLs = 9-6 ]		
	[ Necrosis TGLs = 4-22 ]		
* Stomach, Forestomach		Ulcer	Moderate
	[ Ulcer TGLs = 15-4 ]		
* Stomach, Glandular		Erosion	Moderate
	[ Erosion TGLs = 15-4 ]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Clitoral Gland Carcinoma

- Heart Thrombosis

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 298

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112263

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Clitoral Gland           |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

**OBSERVATIONS**

- |                          |                                   |                       |                     |
|--------------------------|-----------------------------------|-----------------------|---------------------|
| * Adrenal Cortex         |                                   | Degeneration          | Fatty, Moderate     |
| * Brain                  |                                   | Compression           | Moderate            |
|                          | [ Compression TGLs = 6-1 ]        |                       |                     |
| * Eye                    |                                   | Cataract              | Minimal             |
|                          | Retina                            | Degeneration          | Moderate            |
| * Heart                  |                                   | Cardiomyopathy        | Moderate            |
| * Kidney                 |                                   | Inflammation          | Chronic, Mild       |
|                          |                                   | Nephropathy           | Marked              |
|                          | [ Inflammation TGLs = 4-5 ]       |                       |                     |
|                          | [ Nephropathy TGLs = 4-5 ]        |                       |                     |
| * Liver                  |                                   | Basophilic Focus      |                     |
|                          | Hepatocyte                        | Hyperplasia           | Focal, Moderate     |
|                          |                                   | Mixed Cell Focus      |                     |
|                          |                                   | Necrosis              | Focal, Minimal      |
| * Lung                   |                                   | Infiltration Cellular | Histiocyte, Minimal |
|                          |                                   | Inflammation          | Chronic, Minimal    |
| * Lymph Node, Mandibular |                                   | Ectasia               | Moderate            |
| * Mammary Gland          |                                   | Fibroadenoma          | Multiple            |
|                          |                                   | Hyperplasia           | Moderate            |
|                          | [ Fibroadenoma TGLs = 2-21,3-22 ] |                       |                     |
|                          | [ Hyperplasia TGLs = 1-8 ]        |                       |                     |
| * Pituitary Gland        | Pars Distalis                     | Adenoma               |                     |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 298

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112263

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLs = 5-1 ]

\* Spleen

Hematopoietic Cell Proliferation

Moderate

\* Thyroid Gland

C Cell

Adenoma

Follicle

Cyst

C Cell

Hyperplasia

Minimal

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 299

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112264

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLs = 5-1 ]			
* Clitoral Gland		Fibrosarcoma	
		Inflammation	Chronic, Mild
[ Fibrosarcoma TGLs = 1-23 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
[ Basophilic Focus TGLs = 7-6 ]			
[ Clear Cell Focus TGLs = 7-6 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 6-8 ]			
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLs = 3-21 ]			
* Pancreas		Cyst	

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 299

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112264

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 4-1 ]			
* Spleen		Pigmentation	Moderate
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLs = 2-22 ]			

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 300

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Minimal
	[ Compression TGLs = 14-1 ]		
* Clitoral Gland		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-8 ]		
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-5 ]		
* Liver		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 8-6 ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 12-2 ]		
Lymph Node		Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-21 ]		
	[ Leukemia Mononuclear TGLs = 9-22 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 300

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112265

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Leukemia Mononuclear TGLs = 5-25 ]		
	[ Leukemia Mononuclear TGLs = 10-27 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 7-26 ]		
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Intermed	Cyst	
		Leukemia Mononuclear	
	[ Cyst TGLs = 15-1 ]		
* Salivary Glands		Leukemia Mononuclear	
* Skin	Control	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Marked
	Control Epider	Hyperplasia	Minimal
		Ulcer	Marked
	[ Hyperplasia TGLs = 13-24 ]		
	[ Ulcer TGLs = 13-24 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 4-6 ]		
* Stomach, Forestomach		Leukemia Mononuclear	
		Ulcer	Moderate
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
Tissue NOS		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 11-23 ]		
* Uterus		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 301

**TMT:** 6  
**DOSE:** 30 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 583  
**HISTO:** 112266

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Bone		Chordoma	
	[ Chordoma TGLs = 5-24 ]		
* Heart		Cardiomyopathy	Minimal
* Int Sm Jejunum			
	Note: MATERIAL ASSOCIATED WITH JEJUNUM ON SLIDE 22 APPEARS TO BE DESQUAMATED, PARTIALLY DIGESTED PORTIONS OF HYPERPLASTIC FORESTOMACH MUCOSA.		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	Lymph Node	Hemorrhage	Moderate
	[ Hemorrhage TGLs = 4-3 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 3-21 ]		
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 301

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 583

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112266

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach

Epithelium

Pigmentation

Moderate

Hyperplasia

Moderate

Note: FORESTOMACH HYPERPLASIA IS PRESENT ON SLIDES 4 AND 23.

[ Hyperplasia TGLs = 9-23 ]

\* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

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PRIMARY CAUSE OF DEATH

- Bone Chordoma

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**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 302

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112267

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Mild

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**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 303

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 703

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112268

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

Lymph Node	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
[ Adenoma TGLs = 2-21 ]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hepatodiaphragmatic Nodule TGLs = 3-22 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Mild
[ Hyperplasia TGLs = 1-8 ]			
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH** - Islets, Pancreatic Adenoma

Animal Note: NO MEDIASTINAL LYMPH NODE ON SLIDE 3.



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 304

**TMT:** 6  
**DOSE:** 30 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 736  
**HISTO:** 112269

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Cardiomyopathy Inflammation Nephropathy	Fatty, Moderate Focal, Mild Mild Chronic, Moderate Moderate
* Heart			
* Kidney			
	[ Inflammation TGLs = 5-5 ]		
	[ Nephropathy TGLs = 5-5 ]		
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular Inflammation Hyperplasia Pigmentation	Histiocyte, Minimal Chronic, Minimal Lymphoid, Mild Mild
Lymph Node	Mediastinal Mediastinal		
	[ Pigmentation TGLs = 6-3 ]		
* Mammary Gland		Fibroadenoma Hyperplasia	Marked
	[ Fibroadenoma TGLs = 2-21 ]		
	[ Hyperplasia TGLs = 1-8,3-22 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 7-1 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 304

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112269

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLs = 4-7 ]			

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TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 305

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Brain		Compression	Mild
[ Compression TGLs = 5-1 ]			
* Harderian Gland		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Pancreas		Atrophy	Mild
		Cyst	
[ Atrophy TGLs = 3-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 4-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLs = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 306

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112271

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                           |                          |                            |
|--------------------------|---------------------------|--------------------------|----------------------------|
| * Adrenal Medulla        | * Bone                    | * Bone Marrow            | * Clitoral Gland           |
| * Esophagus              | * Eye                     | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Nose                    | * Ovary                  | * Parathyroid Gland        |
| * Salivary Glands        | * Stomach, Glandular      | * Thymus                 | * Thyroid Gland            |
| * Trachea                | * Urinary Bladder         | * Uterus                 | Vagina                     |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                             |               |                                  |                     |
|-----------------------------|---------------|----------------------------------|---------------------|
| * Adrenal Cortex            |               | Degeneration                     | Fatty, Mild         |
|                             |               | Hyperplasia                      | Focal, Mild         |
| * Brain                     |               | Compression                      | Mild                |
| [ Compression TGLs = 6-1 ]  |               |                                  |                     |
| * Heart                     |               | Cardiomyopathy                   | Mild                |
| * Intestine Small, Duodenum | Epithelium    | Hyperplasia                      | Moderate            |
| * Kidney                    |               | Nephropathy                      | Marked              |
| [ Nephropathy TGLs = 4-5 ]  |               |                                  |                     |
| * Liver                     | Hepatocyte    | Vacuolization Cytoplasmic        | Marked              |
| * Lung                      |               | Infiltration Cellular            | Histiocyte, Minimal |
| * Lymph Node, Mesenteric    |               | Hemorrhage                       | Mild                |
| * Mammary Gland             |               | Hyperplasia                      | Marked              |
| [ Hyperplasia TGLs = 1-8 ]  |               |                                  |                     |
| * Pancreas                  | Acinus        | Cytoplasmic Alteration           | Moderate            |
| * Pituitary Gland           | Pars Distalis | Adenoma                          |                     |
| [ Adenoma TGLs = 5-1 ]      |               |                                  |                     |
| * Skin                      | SOA           | Hyperkeratosis                   | Minimal             |
| * Spleen                    |               | Hematopoietic Cell Proliferation | Mild                |
| * Stomach, Forestomach      |               | Edema                            | Marked              |
|                             | Epithelium    | Hyperplasia                      | Moderate            |
|                             |               | Ulcer                            | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 306

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112271

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 307

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112272

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                   | * Bone Marrow               | * Brain                  |
| * Clitoral Gland           | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mesenteric    | * Nose                   |
| * Ovary                    | * Pancreas               | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                | * Urinary Bladder           | * Uterus                 |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |                            |                                |  |   |
|----------------------------|--------------------------------|--|---|
| * Adrenal Cortex           |                                | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hyperplasia | Fatty, Marked<br>Focal, Marked              |
| * Heart                    |                                | Cardiomyopathy   | Minimal                                     |
| * Kidney                   |                                | Nephropathy  | Mild  |
| * Liver                    |                                | Basophilic Focus   |   |
| * Lung                     |                                | Infiltration Cellular<br>Pigmentation<br>Hyperplasia             | Histiocyte, Minimal<br>Moderate<br>Moderate |
| * Mammary Gland            |                                |  |   |
| [ Hyperplasia TGLs = 1-8 ] |                                |  |   |
| Mesentery                  | Fat                            | Necrosis   | Moderate                                    |
| [ Necrosis TGLs = 2-21 ]   |                                |  |   |
| * Pituitary Gland          | Pars Distalis<br>Pars Intermed | Adenoma<br>Angiectasis   | Mild  |
| [ Adenoma TGLs = 4-1 ]     |                                |  |   |
| * Spleen                   |                                | Hematopoietic Cell Proliferation                                 | Minimal                                     |

Animal Note: MODERATE PERIARTERITIS IN BLOOD VESSEL WITH SALIVARY GLAND SECTION (SLIDE 8); NOT TABULATED.

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 308

TMT: 6  
 DOSE: 30 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 455  
 HISTO: 112273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                            |                          |                           |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Bone                   | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus                | * Eye                    | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                  |
| * Lung                      | * Ovary                    | * Pancreas               | * Parathyroid Gland       |
| * Salivary Glands           | * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland            | * Trachea                | * Urinary Bladder         |
| * Uterus                    |                            |                          |                           |

MISSING

- \* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- \* Intestine Small, Ileum

OBSERVATIONS

- |                          |                              |                                  |                |
|--------------------------|------------------------------|----------------------------------|----------------|
| * Brain                  |                              | Compression                      | Marked         |
|                          |                              | Hemorrhage                       | Mild           |
|                          | [ Compression TGLs = 4-1 ]   |                                  |                |
|                          | [ Hemorrhage TGLs = 4-1 ]    |                                  |                |
| * Liver                  | Bile Duct                    | Hyperplasia                      | Minimal        |
| * Lymph Node, Mesenteric |                              | Hyperplasia                      | Lymphoid, Mild |
| * Mammary Gland          |                              | Fibroadenoma                     |                |
|                          |                              | Hyperplasia                      | Mild           |
|                          | [ Fibroadenoma TGLs = 5-21 ] |                                  |                |
| * Nose                   |                              | Foreign Body                     |                |
|                          |                              | Inflammation                     | Chronic, Mild  |
| * Pituitary Gland        | Pars Distalis                | Adenoma                          |                |
|                          | [ Adenoma TGLs = 3-1 ]       |                                  |                |
| * Spleen                 |                              | Hematopoietic Cell Proliferation | Mild           |
|                          |                              | Pigmentation                     | Moderate       |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 309

**TMT:** 6  
**DOSE:** 30 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 687  
**HISTO:** 112274

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Adrenal Medulla	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	Marked
[ Compression TGLs = 5-1 ]			
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 3-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 6-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Pigmentation	Moderate
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLs = 2-22 ]			

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 310

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112275

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
	[ Hemorrhage TGLs = 7-3 ]		
	[ Pigmentation TGLs = 7-3 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[ Carcinoma TGLs = 4-23 ]		
	[ Fibroadenoma TGLs = 2-21,3-22 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 310

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112275

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hyperplasia TGLs = 1-8 ] Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 5-24 ] * Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 9-1 ] * Skin	SOA Epidermis Control Epider Epidermis, SOA	Hyperkeratosis Hyperplasia Hyperplasia Hyperplasia Inflammation	Minimal Marked Minimal Minimal Chronic, Moderate
[ Hyperplasia TGLs = 8-26 ] [ Inflammation TGLs = 8-26 ] * Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Polyp Stromal	

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 311

TMT: 6

SEX: Female

DAY ON TEST: 736

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Salivary Glands        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                   |   |                  |          |
|-------------------|---|------------------|----------|
| * Heart           |   | Cardiomyopathy   | Mild     |
| * Kidney          |   | Nephropathy      | Mild     |
| * Liver           |   | Basophilic Focus |          |
| * Lung            |   | Pigmentation     | Mild     |
| * Mammary Gland   |   | Hyperplasia      | Mild     |
|                   | [ Hyperplasia TGLs = 1-8 ]                                |                  |          |
| * Pituitary Gland |   | Pars Distalis    |          |
|                   |   | Pars Intermed    |          |
|                   | [ Adenoma TGLs = 4-1 ]                                    | Adenoma          |          |
|                   |   | Angiectasis      | Moderate |
| Tongue            |   | Epithelium       |          |
|                   | [ Hyperplasia TGLs = 5-22 ]                               | Hyperplasia      | Mild     |
| * Uterus          |   | Polyp Stromal    |          |
|                   | Note: THE STROMAL POLYP ON SLIDE 21 IS MARKEDLY NECROTIC. |                  |          |
|                   | [ Polyp Stromal TGLs = 2-21 ]                             |                  |          |

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 312

**TMT:** 6  
**DOSE:** 30 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 721  
**HISTO:** 112277

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Esophagus	* Lymph Node, Mandibular	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 2-21 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
[ Adenoma TGLs = 1-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 313

TMT: 6

SEX: Female

DAY ON TEST: 736

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                   | * Bone Marrow               |
| * Brain                  | * Clitoral Gland           | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lung                      |
| * Lymph Node, Mesenteric | * Nose                     | * Ovary                  | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland          | * Trachea                   |
| * Urinary Bladder        |                            |                          |                             |

MISSING

- \* Lymph Node, Mandibular

INSUFFICIENT TISSUE

- \* Intestine Large, Rectum

OBSERVATIONS

- |                   |                               |                                  |                      |
|-------------------|-------------------------------|----------------------------------|----------------------|
| * Heart           |                               | Cardiomyopathy                   | Moderate             |
| * Kidney          |                               | Inflammation                     | Chronic, Mild        |
|                   |                               | Nephropathy                      | Moderate             |
| * Liver           |                               | Basophilic Focus                 |                      |
|                   |                               | Infiltration Cellular            | Mixed Cell, Moderate |
|                   |                               | Mixed Cell Focus                 |                      |
| * Mammary Gland   |                               | Hyperplasia                      | Moderate             |
|                   | [ Hyperplasia TGLs = 1-8 ]    |                                  |                      |
| Mesentery         |                               | Necrosis                         | Minimal              |
|                   | [ Necrosis TGLs = 2-21 ]      |                                  |                      |
| * Pituitary Gland | Fat                           | Adenoma                          |                      |
| * Spleen          | Pars Distalis                 | Hematopoietic Cell Proliferation | Mild                 |
| * Uterus          |                               | Hyperplasia                      | Cystic, Mild         |
|                   |                               | Polyp Stromal                    |                      |
|                   | [ Hyperplasia TGLs = 3-7 ]    |                                  |                      |
|                   | [ Polyp Stromal TGLs = 4-22 ] |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 314

**TMT:** 6  
**DOSE:** 30 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 722  
**HISTO:** 112279

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Bone Marrow               |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric | * Nose                     | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Trachea                 | * Urinary Bladder           |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Thyroid Gland

**OBSERVATIONS**

- |                   |                                   |                                   |                |
|-------------------|-----------------------------------|-----------------------------------|----------------|
| * Adrenal Cortex  |                                   | Accessory Adrenal Cortical Nodule |                |
|                   |                                   | Degeneration                      | Fatty, Minimal |
| * Brain           |                                   | Compression                       | Marked         |
|                   | [ Compression TGLs = 8-1 ]        |                                   |                |
| * Harderian Gland |                                   | Atrophy                           | Mild           |
| * Kidney          |                                   | Nephropathy                       | Moderate       |
| * Liver           |                                   | Basophilic Focus                  |                |
|                   | Bile Duct                         | Hyperplasia                       | Minimal        |
| * Mammary Gland   |                                   | Fibroadenoma                      | Multiple       |
|                   | [ Fibroadenoma TGLs = 1-21,3-22 ] | Hyperplasia                       | Moderate       |
|                   | [ Hyperplasia TGLs = 2-8 ]        |                                   |                |
| * Pituitary Gland | Pars Distalis                     | Adenoma                           |                |
|                   | [ Adenoma TGLs = 7-1 ]            |                                   |                |
| * Spleen          |                                   | Pigmentation                      | Moderate       |
| * Uterus          |                                   | Hyperplasia                       | Cystic, Mild   |
|                   |                                   | Polyp Stromal                     |                |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 314

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 722

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112279

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 6-7 ]

[ Polyp Stromal TGLs = 5-23 ]

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

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TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 315

TMT: 6

SEX: Female

DAY ON TEST: 710

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus	Vagina		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Brain		Compression	Moderate
		Hemorrhage	Moderate
	[ Compression TGLs = 6-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Mixed Cell Focus	
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Mild
	[ Hemorrhage TGLs = 8-3 ]		
	[ Pigmentation TGLs = 8-3 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 2-21 ]		
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 5-22 ]		

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 315

TMT: 6

SEX: Female

DAY ON TEST: 710

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112280

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
[ Adenoma TGLs = 7-1 ]		Adenoma	
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 316

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 715

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112281

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Bone                      | * Bone Marrow            | * Clitoral Gland           |
| * Esophagus               | * Eye                       | * Harderian Gland        | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Nose                   | * Ovary                    |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                            |                |
|--------------------------|--|----------------------------|----------------|
| * Adrenal Medulla        |  | Pheochromocytoma Malignant |                |
|                          | [ Pheochromocytoma Malignant TGLs = 1-10 ] |                            |                |
| * Brain                  |  | Compression                | Mild           |
|                          | [ Compression TGLs = 6-1 ]                 |                            |                |
| * Heart                  |  | Cardiomyopathy             | Mild           |
| * Intestine Large, Cecum |  | Edema                      | Mild           |
| * Kidney                 |  | Nephropathy                | Mild           |
| * Liver                  |  | Clear Cell Focus           |                |
|                          |  | Eosinophilic Focus         |                |
|                          | Centrilobular                              | Necrosis                   | Moderate       |
|                          | Note: CLEAR CELL FOCUS IS ON SLIDE 22.     |                            |                |
|                          | [ Eosinophilic Focus TGLs = 7-22 ]         |                            |                |
| Lymph Node               | Mediastinal                                | Hemorrhage                 | Mild           |
|                          | Mediastinal                                | Pigmentation               | Mild           |
|                          | [ Hemorrhage TGLs = 3-3 ]                  |                            |                |
|                          | [ Pigmentation TGLs = 3-3 ]                |                            |                |
| * Lymph Node, Mesenteric |  | Hemorrhage                 | Minimal        |
|                          |  | Hyperplasia                | Lymphoid, Mild |
| * Mammary Gland          |  | Hyperplasia                | Moderate       |
| * Pancreas               |  | Necrosis                   | Moderate       |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 316

TMT: 6

SEX: Female

DAY ON TEST: 715

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 112281

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 5-1 ]			
* Spleen		Congestion	Marked
[ Congestion TGLs = 4-6 ]			
* Uterus		Polyp Stromal	
Note: THE STROMAL POLYP IS NECROTIC.			
[ Polyp Stromal TGLs = 2-21 ]			

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 317

TMT: 6

SEX: Female

DAY ON TEST: 736

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
Note: NO CORRELATING LESION TGL-3.			
Lymph Node			
Note: NO CORRELATING LESION TGL-4.			
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 2-21 ]			
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
		Pigmentation	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 317

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112282

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Angiectasis [ Hyperplasia	TGLs = 5-1 ] TGLs = 5-1 ]			
* Skin		SOA	Hyperkeratosis	Minimal	
* Uterus			Hyperplasia	Cystic, Moderate	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 318

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 679

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112283

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLs = 7-1 ]			
* Eye	Retina	Cataract	Mild
		Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	
		Nephropathy	Minimal
[ Cyst TGLs = 4-23 ]			
* Liver		Basophilic Focus	
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 3-8 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLs = 1-21,2-22 ]			
* Nose		Foreign Body	
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 6-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 318

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 679

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112283

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Polyp Stromal TGLs = 5-7 ]

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 319

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112284

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Clitoral Gland		Hyperplasia	Minimal
[ Hyperplasia TGLs = 1-8 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
[ Basophilic Focus TGLs = 4-6 ]			
* Lung		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLs = 2-21 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	Multiple
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

---

**ANIMAL NUM:** 319

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112284

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Polyp Stromal TGLs = 3-22 ]

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**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 320

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112285

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Nose                   | * Parathyroid Gland        |
| * Salivary Glands         | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

**MISSING**

- \* Ovary

**OBSERVATIONS**

- |                          |                                      |  |                |
|--------------------------|--------------------------------------|--|----------------|
| * Adrenal Cortex         |                                      | Accessory Adrenal Cortical Nodule<br>Hypertrophy | Focal, Minimal |
|                          |                                      | Leukemia Mononuclear                             |                |
| * Adrenal Medulla        |                                      | Leukemia Mononuclear                             |                |
| * Bone Marrow            |                                      | Leukemia Mononuclear                             |                |
| * Heart                  |                                      | Cardiomyopathy                                   | Minimal        |
| * Kidney                 | Renal Tubule                         | Accumulation, Hyaline Droplet                    | Moderate       |
|                          |                                      | Nephropathy                                      | Mild           |
|                          | Renal Tubule                         | Pigmentation                                     | Minimal        |
| * Liver                  |                                      | Basophilic Focus                                 |                |
|                          | Bile Duct                            | Hyperplasia                                      | Moderate       |
|                          |                                      | Leukemia Mononuclear                             |                |
|                          | [ Hyperplasia TGLs = 3-6 ]           |  |                |
|                          | [ Leukemia Mononuclear TGLs = 3-6 ]  |  |                |
| * Lung                   |                                      | Leukemia Mononuclear                             |                |
| Lymph Node               | Mediastinal                          | Leukemia Mononuclear                             |                |
|                          | Pancreatic                           | Leukemia Mononuclear                             |                |
|                          | [ Leukemia Mononuclear TGLs = 10-3 ] |  |                |
|                          | [ Leukemia Mononuclear TGLs = 5-7 ]  |  |                |
| * Lymph Node, Mesenteric |                                      | Leukemia Mononuclear                             |                |
|                          | [ Leukemia Mononuclear TGLs = 9-5 ]  |  |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 320

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112285

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Mammary Gland		Fibroadenoma Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 1-21 ]		
	[ Hyperplasia TGLs = 2-8 ]		
* Ovary			
	Note: OVARY NOT IN BLOCK 7.		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
	[ Cyst TGLs = 11-1 ]		
	[ Hyperplasia TGLs = 11-1 ]		
	[ Leukemia Mononuclear TGLs = 11-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
		Metaplasia	Osseous, Mild
	[ Fibrosis TGLs = 6-22 ]		
	[ Leukemia Mononuclear TGLs = 4-6-1 ]		
* Stomach, Forestomach		Edema	Mild
		Inflammation	Chronic Active, Mild
	[ Edema TGLs = 12-4 ]		
	[ Inflammation TGLs = 12-4 ]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 321

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 2-21 ]		
	[ Hyperplasia TGLs = 1-8 ]		
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Marked
	[ Hyperplasia TGLs = 4-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Mild
	[ Polyp Stromal TGLs = 3-22 ]	Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 322

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 591

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112287

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                            |                   |
|--------------------------|--|----------------------------|-------------------|
| * Adrenal Cortex         |  | Degeneration               | Fatty, Moderate   |
|                          |  | Hypertrophy                | Focal, Moderate   |
| * Bone Marrow            |  | Hyperplasia                | Marked            |
| * Clitoral Gland         |  | Inflammation               | Chronic, Moderate |
| * Heart                  |  | Cardiomyopathy             | Minimal           |
| * Kidney                 |  | Nephropathy                | Minimal           |
| * Liver                  |  | Basophilic Focus           |                   |
|                          |  | Hepatodiaphragmatic Nodule |                   |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 7-22 ] |                            |                   |
| * Lung                   |  | Inflammation               | Chronic, Minimal  |
| * Lymph Node, Mesenteric |  | Ectasia                    | Mild              |
|                          |  | Hemorrhage                 | Minimal           |
| * Mammary Gland          |  | Fibroadenoma               |                   |
|                          |  | Hyperplasia                | Moderate          |
|                          | [ Fibroadenoma TGLs = 2-21 ]               |                            |                   |
|                          | [ Hyperplasia TGLs = 1-8 ]                 |                            |                   |
| * Pituitary Gland        | Pars Distalis                              | Angiectasis                | Moderate          |
|                          | Pars Intermed                              | Hyperplasia                | Focal, Mild       |
|                          | Pars Distalis                              | Hyperplasia                | Focal, Moderate   |
|                          | [ Angiectasis TGLs = 8-1 ]                 |                            |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 322

TMT: 6

SEX: Female

DAY ON TEST: 591

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112287

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hyperplasia TGLs = 8-1 ]

* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

[ Hematopoietic Cell Proliferation TGLs = 5-6 ]

Vagina Polyp

Note: THE LESION (TGL 4) ON SLIDE 7 IS A PORTION OF THE VAGINAL POLYP.

[ Polyp TGLs = 3-23,4-7 ]

PRIMARY CAUSE OF DEATH - Vagina Polyp

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 323

TMT: 6

SEX: Female

DAY ON TEST: 75

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112288

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
Tooth	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

* Intestine Large, Rectum	* Lymph Node, Mandibular
---------------------------	--------------------------

**OBSERVATIONS**

\* Thymus

Atrophy

Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: MODERATE HYPERPLASIA AND CHRONIC INFLAMMATION OF ORAL MUCOSA (SLIDE 9); NOT TABULATED AS ORAL MUCOSA IS A NONPROTOCOL-REQUIRED TISSUE.

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 324

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112289

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
[ Adenoma TGLs = 2-8 ]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[ Eosinophilic Focus TGLs = 9-26 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
[ Alveolar/Bronchiolar Adenoma TGLs = 8-25 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8,6-24 ]			
Mesentery		Accessory Spleen	
	Fat	Necrosis	Moderate
[ Accessory Spleen TGLs = 4-22 ]			
[ Necrosis TGLs = 3-21 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 324

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112289

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
* Skin	[ Adenoma TGLs = 7-1 ] Epidermis	Hyperplasia Inflammation	Moderate Chronic, Moderate
	[ Hyperplasia TGLs = 5-23 ] [ Inflammation TGLs = 5-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 325

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 694

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112290

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Angiectasis	Moderate
		Degeneration	Fatty, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Moderate
		Leukemia Mononuclear	
	[ Hepatodiaphragmatic Nodule TGLs = 7-22 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Moderate
	Pancreatic	Pigmentation	Moderate
	[ Hemorrhage TGLs = 6-7 ]		
	[ Pigmentation TGLs = 6-7 ]		
* Lymph Node, Mesenteric		Atrophy	Mild
		Ectasia	Minimal
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 3-8 ]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	[ Cyst TGLs = 10-1 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 325

TMT: 6

SEX: Female

DAY ON TEST: 694

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112290

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
		Ulcer	Moderate
	[ Hyperplasia TGLs = 1-21 ]		
	[ Inflammation TGLs = 1-21 ]		
	[ Ulcer TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[ Hematopoietic Cell Proliferation TGLs = 5-6 ]		
	[ Leukemia Mononuclear TGLs = 5-6 ]		
* Stomach, Glandular		Erosion	Mild
* Thyroid Gland	C Cell	Carcinoma	
	[ Carcinoma TGLs = 8-3 ]		
* Uterus		Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLs = 4-7 ]		

PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma  
CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 326

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 614

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112291

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Heart                  | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| * Salivary Glands         | * Thymus                    | * Trachea                | * Urinary Bladder          |
| Vagina                    |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                                   |                  |
|--------------------------|---|-----------------------------------|------------------|
| * Adrenal Cortex         |   | Accessory Adrenal Cortical Nodule |                  |
|                          |   | Necrosis                          | Mild             |
| * Bone Marrow            |   | Hyperplasia                       | Moderate         |
| * Brain                  |   | Compression                       | Moderate         |
|                          |   | Necrosis                          | Mild             |
|                          | [ Compression TGLs = 16-1 ]                         |                                   |                  |
| * Intestine Large, Cecum |   | Edema                             | Mild             |
| * Kidney                 | Renal Tubule  | Accumulation, Hyaline Droplet     | Mild             |
|                          |   | Nephropathy                       | Moderate         |
|                          | [ Accumulation, Hyaline Droplet TGLs = 6-5 ]        |                                   |                  |
|                          | [ Nephropathy TGLs = 6-5 ]                          |                                   |                  |
| * Liver                  |   | Hematopoietic Cell Proliferation  | Mild             |
|                          |   | Histiocytic Sarcoma               |                  |
|                          | Centrilobular                                       | Necrosis                          | Marked           |
|                          | [ Histiocytic Sarcoma TGLs = 8-6,9-22,10-23,19-27 ] |                                   |                  |
|                          | [ Necrosis TGLs = 8-6 ]                             |                                   |                  |
| * Lung                   |   | Hemorrhage                        | Mild             |
|                          |   | Histiocytic Sarcoma               |                  |
|                          |   | Infiltration Cellular             | Histiocyte, Mild |
|                          | [ Hemorrhage TGLs = 12-2 ]                          |                                   |                  |
| Lymph Node               | Mediastinal   | Hemorrhage                        | Marked           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 326

TMT: 6

SEX: Female

DAY ON TEST: 614

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112291

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Histiocytic Sarcoma	
	Mediastinal	Pigmentation	Moderate
	[ Hemorrhage TGLs = 11-26 ]		
	[ Pigmentation TGLs = 11-26 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[ Hemorrhage TGLs = 7-5 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLs = 5-21 ]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 17-1 ]		
* Skin		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 13-24,14-25 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Stomach, Forestomach		Ulcer	Moderate
	[ Ulcer TGLs = 18-4 ]		
* Stomach, Glandular		Erosion	Minimal
		Ulcer	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 327

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112292

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Brain		Compression	Marked
	[ Compression TGLs = 2-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[ Eosinophilic Focus TGLs = 3-21 ]		
* Lung		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 1-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 328

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112293

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Eye                       | * Harderian Gland        | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Nose                   | * Ovary                    | * Parathyroid Gland       |
| * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |  |                            |                      |
|--------------------------|--|----------------------------|----------------------|
| * Adrenal Medulla        |  | Leukemia Mononuclear       |                      |
| * Bone                   | Femur                                      | Osteopetrosis              | Moderate             |
| * Bone Marrow            |  | Leukemia Mononuclear       |                      |
| * Heart                  |  | Cardiomyopathy             | Minimal              |
| * Intestine Large, Cecum |  | Edema                      | Mild                 |
| * Liver                  |  | Basophilic Focus           |                      |
|                          |  | Hepatodiaphragmatic Nodule |                      |
|                          |  | Leukemia Mononuclear       |                      |
|                          |  | Necrosis                   | Focal, Minimal       |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 6-22 ] |                            |                      |
|                          | [ Leukemia Mononuclear TGLs = 5-6 ]        |                            |                      |
| * Lung                   |  | Infiltration Cellular      | Histiocyte, Moderate |
|                          | [ Infiltration Cellular TGLs = 8-2 ]       |                            |                      |
| Lymph Node               | Mediastinal                                | Leukemia Mononuclear       |                      |
|                          | [ Leukemia Mononuclear TGLs = 7-3 ]        |                            |                      |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear       |                      |
| * Mammary Gland          |  | Hyperplasia                | Moderate             |
|                          | [ Hyperplasia TGLs = 1-8 ]                 |                            |                      |
| Mesentery                | Fat  | Necrosis                   | Moderate             |
|                          | [ Necrosis TGLs = 4-21 ]                   |                            |                      |
| * Pancreas               |  | Leukemia Mononuclear       |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 328

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 708

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112293

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Pituitary Gland

Pars Distalis

Cyst

Note: STRUCTURE RESEMBLING ECTOPIC HAIR FOLLICLE IN PARS NERVOSA; MORPHOLOGY UNAVAILABLE ON TDMS.

[ Cyst TGLs = 9-1 ]

\* Skin

SOA

Hyperkeratosis

Minimal

\* Spleen

Leukemia Mononuclear

\* Uterus

Polyp Stromal

[ Polyp Stromal TGLs = 2-23 ]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 329

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112294

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	
		Inflammation	Chronic, Mild
		Nephropathy	Moderate
	[ Cyst TGLs = 2-21 ]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Hyperplasia	Moderate
	Note: MAMMARY GLAND HYPERPLASIA IS MOST PRONOUNCED IN SECTION NEAR CLITORAL GLAND.		
	[ Hyperplasia TGLs = 1-8 ]		
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Note: PITUITARY GLAND ADENOMA IS SMALL.		
	[ Cyst TGLs = 3-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 330

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112295

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Marked
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Pigmentation	Minimal
	[ Pigmentation TGLs = 7-2 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
	[ Fibroadenoma TGLs = 3-22 ]		
	[ Hyperplasia TGLs = 1-8,2-21 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 4-23,5-24 ]		
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	[ Angiectasis TGLs = 8-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Hyperplasia	Cystic, Moderate
		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 330

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112295

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Polyp Stromal TGLs = 6-25 ]

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 331

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 627

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112296

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Bone Marrow             | * Brain                     | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Ovary                  |
| * Parathyroid Gland        | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

**MISSING**

- |                   |                          |
|-------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Mandibular |
|-------------------|--------------------------|

**OBSERVATIONS**

- |  |  |                                  |                    |
|--|--|----------------------------------|--------------------|
| * Adrenal Cortex                         |  | Degeneration                     | Fatty, Minimal     |
| * Heart                                  |  | Cardiomyopathy                   | Minimal            |
| * Kidney                                 |  | Nephropathy                      | Minimal            |
| * Liver                                  |  | Eosinophilic Focus               |                    |
|  |  | Hepatodiaphragmatic Nodule       |                    |
|  |  | Mixed Cell Focus                 |                    |
| Note: EOSINOPHILIC FOCUS IS ON SLIDE 21. |  |                                  |                    |
|  | [ Hepatodiaphragmatic Nodule TGLs = 2-21 ] |                                  |                    |
| * Lung                                   |  | Hemorrhage                       | Mild               |
|  |  | Infiltration Cellular            | Histiocyte, Mild   |
|  | [ Hemorrhage TGLs = 1-2 ]                  |                                  |                    |
| * Mammary Gland                          |  | Hyperplasia                      | Mild               |
| * Nose                                   |  | Foreign Body                     |                    |
|  | Respirat Epith                             | Hyperplasia                      | Moderate           |
|  |  | Inflammation                     | Chronic, Marked    |
|  | Respirat Epith                             | Metaplasia                       | Squamous, Moderate |
| * Pancreas                               |  | Atrophy                          | Mild               |
| * Pituitary Gland                        | Pars Distalis                              | Cyst                             |                    |
| * Spleen                                 |  | Hematopoietic Cell Proliferation | Mild               |
|  |  | Pigmentation                     | Moderate           |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 331

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 627

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112296

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Nose Inflammation

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 332

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112297

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Nose                      | * Ovary                  |
| * Pancreas                 | * Parathyroid Gland       | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                                   |                                   |                     |
|----------------------|-----------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex     |                                   | Accessory Adrenal Cortical Nodule |                     |
|                      |                                   | Degeneration                      | Fatty, Moderate     |
|                      |                                   | Hypertrophy                       | Focal, Moderate     |
| * Brain              |                                   | Compression                       | Mild                |
|                      | [ Compression TGLs = 7-1 ]        |                                   |                     |
| * Heart              |                                   | Cardiomyopathy                    | Mild                |
| * Islets, Pancreatic |                                   | Adenoma                           |                     |
| * Kidney             |                                   | Nephropathy                       | Mild                |
| * Liver              |                                   | Basophilic Focus                  |                     |
|                      |                                   | Mixed Cell Focus                  |                     |
| * Lung               |                                   | Infiltration Cellular             | Histiocyte, Minimal |
|                      |                                   | Inflammation                      | Chronic, Minimal    |
| * Mammary Gland      |                                   | Fibroadenoma                      | Multiple            |
|                      |                                   | Hyperplasia                       | Mild                |
|                      | [ Fibroadenoma TGLs = 1-21,2-22 ] |                                   |                     |
| * Pituitary Gland    | Pars Distalis                     | Adenoma                           |                     |
|                      | [ Adenoma TGLs = 6-1 ]            |                                   |                     |
| * Skin               |                                   |                                   |                     |
|                      | Note: SKIN, CONTROL - MISSING.    |                                   |                     |
| * Spleen             |                                   | Infiltration Cellular             | Mixed Cell, Marked  |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 332

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112297

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: "INFILTRATION CELLULAR MIXED CELL" IS LYMPHOHISTIOCYTIC CELL INFILTRATION.

[ Infiltration Cellular TGLs = 3-23,4-24,5-25 ]

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 333

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112298

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   |
| * Ovary                    | * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           | * Uterus                 |

**MISSING**

- |                          |          |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

**OBSERVATIONS**

- |                   |                              |                                   |                     |
|-------------------|------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex  |                              | Accessory Adrenal Cortical Nodule |                     |
| * Clitoral Gland  |                              | Adenoma                           |                     |
|                   |                              | Cyst                              |                     |
|                   |                              | Inflammation                      | Chronic, Moderate   |
|                   | [ Cyst TGLs = 2-8 ]          |                                   |                     |
|                   | [ Inflammation TGLs = 2-8 ]  |                                   |                     |
| * Heart           |                              | Cardiomyopathy                    | Mild                |
| * Kidney          |                              | Nephropathy                       | Minimal             |
| * Liver           |                              | Basophilic Focus                  |                     |
| * Lung            |                              | Infiltration Cellular             | Histiocyte, Minimal |
|                   |                              | Inflammation                      | Chronic, Minimal    |
|                   |                              | Pigmentation                      | Minimal             |
| * Mammary Gland   |                              | Fibroadenoma                      |                     |
|                   |                              | Hyperplasia                       | Moderate            |
|                   | [ Fibroadenoma TGLs = 3-22 ] |                                   |                     |
|                   | [ Hyperplasia TGLs = 1-8 ]   |                                   |                     |
| Mesentery         | Fat                          | Necrosis                          | Mild                |
|                   | [ Necrosis TGLs = 5-21 ]     |                                   |                     |
| * Pancreas        |                              | Cyst                              |                     |
| * Pituitary Gland | Pars Distalis                | Adenoma                           |                     |
|                   | Pars Distalis                | Cyst                              |                     |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 333

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112298

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 6-1 ]

* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 334

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112299

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Clitoral Gland           |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| Peripheral Nerve          | * Salivary Glands           | * Skin                   | Spinal Cord                |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  | Vagina                      |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                  |   |                            |          |
|------------------|---|----------------------------|----------|
| * Adrenal Cortex |   | Leukemia Mononuclear       |          |
|                  | [ Leukemia Mononuclear TGLs = 5-10 ]        |                            |          |
| * Bone Marrow    |   | Leukemia Mononuclear       |          |
| * Eye            |   | Cataract                   | Moderate |
|                  | Retina                                      | Degeneration               | Marked   |
|                  | [ Cataract TGLs = 10-44 ]                   |                            |          |
| * Heart          |   | Cardiomyopathy             | Minimal  |
| * Kidney         |   | Leukemia Mononuclear       |          |
|                  | Renal Tubule                                | Pigmentation               | Moderate |
|                  | [ Leukemia Mononuclear TGLs = 6-5 ]         |                            |          |
|                  | [ Pigmentation TGLs = 6-5 ]                 |                            |          |
| * Liver          |   | Basophilic Focus           |          |
|                  |   | Hepatocellular Adenoma     |          |
|                  |   | Hepatodiaphragmatic Nodule |          |
|                  | Bile Duct                                   | Hyperplasia                | Mild     |
|                  |   | Leukemia Mononuclear       |          |
|                  | [ Hepatocellular Adenoma TGLs = 8-22 ]      |                            |          |
|                  | [ Hepatodiaphragmatic Nodule TGLs = 11-23 ] |                            |          |
|                  | [ Hyperplasia TGLs = 7-6 ]                  |                            |          |
|                  | [ Leukemia Mononuclear TGLs = 7-6 ]         |                            |          |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

**ANIMAL NUM:** 334

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112299

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 9-3 ]		
	[ Leukemia Mononuclear TGLs = 4-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 3-21 ]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
* Stomach, Glandular		Erosion	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 335

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112300

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                                  |                           |                              |
|-------------------|----------------------------------|---------------------------|------------------------------|
| * Adrenal Cortex  |                                  | Degeneration              | Fatty, Moderate              |
|                   |                                  | Hyperplasia               | Focal, Mild                  |
| * Brain           |                                  | Carcinoma                 | Metastatic (Pituitary Gland) |
|                   |                                  | Compression               | Marked                       |
|                   | [ Compression TGLs = 6-1 ]       |                           |                              |
| * Clitoral Gland  |                                  | Inflammation              | Chronic, Moderate            |
| * Heart           |                                  | Cardiomyopathy            | Mild                         |
| * Kidney          |                                  | Nephropathy               | Moderate                     |
|                   | [ Nephropathy TGLs = 4-5 ]       |                           |                              |
| * Liver           |                                  | Basophilic Focus          |                              |
|                   |                                  | Mixed Cell Focus          |                              |
|                   | Hepatocyte                       | Vacuolization Cytoplasmic | Moderate                     |
|                   | [ Basophilic Focus TGLs = 5-6 ]  |                           |                              |
|                   | [ Mixed Cell Focus TGLs = 5-6 ]  |                           |                              |
| * Lung            |                                  | Infiltration Cellular     | Histiocyte, Mild             |
| * Mammary Gland   |                                  | Hyperplasia               | Marked                       |
|                   | [ Hyperplasia TGLs = 1-21,2-8 ]  |                           |                              |
| Mesentery         |                                  | Accessory Spleen          |                              |
|                   | [ Accessory Spleen TGLs = 3-22 ] |                           |                              |
| * Pituitary Gland | Pars Distalis                    | Carcinoma                 |                              |
|                   | [ Carcinoma TGLs = 7-1 ]         |                           |                              |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 335

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112300

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Salivary Glands		Atrophy	Minimal
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Moderate

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 336

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112301

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hypertrophy Leukemia Mononuclear	Fatty, Mild Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus Hyperplasia Hyperplasia Leukemia Mononuclear	Focal, Moderate Mild
	Hepatocyte		
	Bile Duct		
	[ Basophilic Focus TGLs = 6-6 ]		
	[ Eosinophilic Focus TGLs = 10-24 ]		
	[ Hyperplasia TGLs = 9-23 ]		
	[ Hyperplasia TGLs = 6-6 ]		
	[ Leukemia Mononuclear TGLs = 6-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 5-7 ]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 336

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112301

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [ Hyperplasia TGLs = 1-8 ]		Hyperplasia	Mild
Mesentery	Fat	Accessory Spleen	
		Necrosis	Marked
	[ Accessory Spleen TGLs = 4-22 ]		
	[ Necrosis TGLs = 7-21 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	[ Adenoma TGLs = 8-1 ]		
	[ Angiectasis TGLs = 8-1 ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 337

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112302

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Mild
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLs = 6-2 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 2-8 ]		
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 3-22 ]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Adenoma TGLs = 7-1 ]		
	[ Hyperplasia TGLs = 7-1 ]		

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 337

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112302

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Skin

SOA

Hyperkeratosis

Minimal

Lipoma

[ Lipoma TGLs = 1-21 ]

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TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 338

TMT: 6

SEX: Female

DAY ON TEST: 554

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 3-8 ]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1-21 ]	Hyperplasia	Mild
	[ Hyperplasia TGLs = 4-8 ]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
* Skin	SOA	Hyperkeratosis	Minimal
* Uterus		Polyp Stromal	
	Note: THE STROMAL POLYP IS NECROTIC.		
	[ Polyp Stromal TGLs = 5-7 ]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

**ANIMAL NUM:** 339

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 557

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112304

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Cyst
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 340

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 605

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112305

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Salivary Glands         |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Thymus

**OBSERVATIONS**

- |                          |                                       |                           |                     |
|--------------------------|---------------------------------------|---------------------------|---------------------|
| * Adrenal Cortex         |                                       | Degeneration              | Fatty, Mild         |
| * Kidney                 |                                       | Nephropathy               | Minimal             |
| * Liver                  |                                       | Infiltration Cellular     | Mixed Cell, Mild    |
|                          |                                       | Mixed Cell Focus          |                     |
|                          | Hepatocyte                            | Vacuolization Cytoplasmic | Mild                |
|                          | [ Infiltration Cellular TGLs = 2-21 ] |                           |                     |
| * Lung                   |                                       | Infiltration Cellular     | Histiocyte, Minimal |
| Lymph Node               | Mediastinal                           | Hemorrhage                | Mild                |
|                          | Mediastinal                           | Hyperplasia               | Lymphoid, Mild      |
|                          | [ Hemorrhage TGLs = 3-3 ]             |                           |                     |
|                          | [ Hyperplasia TGLs = 3-3 ]            |                           |                     |
| * Lymph Node, Mesenteric |                                       | Hemorrhage                | Minimal             |
|                          |                                       | Hyperplasia               | Lymphoid, Mild      |
| * Mammary Gland          |                                       | Hyperplasia               | Mild                |
| * Nose                   | Respirat Epith                        | Hyperplasia               | Moderate            |
|                          |                                       | Inflammation              | Chronic, Moderate   |
|                          | Respirat Epith                        | Metaplasia                | Squamous, Moderate  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 340

TMT: 6

SEX: Female

DAY ON TEST: 605

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 112305

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Cyst TGLs = 4-1 ]	Pars Distalis	Cyst	
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Stomach, Forestomach [ Hyperplasia TGLs = 5-22 ]	Epithelium	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 341

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                                      |                       |                   |
|--------------------------------------|-----------------------|-------------------|
| * Adrenal Cortex                     | Leukemia Mononuclear  |                   |
| [ Leukemia Mononuclear TGLs = 4-10 ] |                       |                   |
| * Bone Marrow                        | Leukemia Mononuclear  |                   |
| * Heart                              | Cardiomyopathy        | Mild              |
| * Kidney                             | Infarct               | Minimal           |
|                                      | Leukemia Mononuclear  |                   |
|                                      | Nephropathy           | Mild              |
| [ Leukemia Mononuclear TGLs = 6-5 ]  |                       |                   |
| [ Nephropathy TGLs = 6-5 ]           |                       |                   |
| * Liver                              | Basophilic Focus      |                   |
|                                      | Leukemia Mononuclear  |                   |
|                                      | Mixed Cell Focus      |                   |
| [ Basophilic Focus TGLs = 5-6 ]      |                       |                   |
| [ Leukemia Mononuclear TGLs = 5-6 ]  |                       |                   |
| [ Mixed Cell Focus TGLs = 5-6 ]      |                       |                   |
| * Lung                               | Infiltration Cellular | Histiocyte, Mild  |
|                                      | Inflammation          | Chronic, Moderate |
| * Mammary Gland                      | Fibroadenoma          |                   |
|                                      | Hyperplasia           | Mild              |
| [ Fibroadenoma TGLs = 1-21 ]         |                       |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 341

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112306

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hyperplasia TGLs = 2-8 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
* Skin	Epidermis	Hyperplasia	Marked
		Ulcer	Moderate
[ Hyperplasia TGLs = 7-22,8-23 ]			
[ Ulcer TGLs = 7-22,8-23 ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 3-6 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 342

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112307

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Nose                      |
| * Ovary                  | * Parathyroid Gland        | * Salivary Glands         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Trachea                 | * Urinary Bladder           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                              |                              |                     |
|--------------------------|------------------------------|------------------------------|---------------------|
| * Adrenal Cortex         |                              | Degeneration                 | Fatty, Moderate     |
| * Heart                  |                              | Cardiomyopathy               | Minimal             |
| * Kidney                 | Transit Epithe               | Hyperplasia                  | Moderate            |
|                          |                              | Infarct                      | Moderate            |
|                          |                              | Inflammation                 | Chronic, Mild       |
|                          |                              | Nephropathy                  | Minimal             |
|                          | [ Infarct TGLs = 6-22 ]      |                              |                     |
| * Liver                  |                              | Basophilic Focus             |                     |
| * Lung                   | Alveolar Epith               | Alveolar/Bronchiolar Adenoma |                     |
|                          |                              | Hyperplasia                  | Mild                |
|                          |                              | Infiltration Cellular        | Histiocyte, Minimal |
| * Lymph Node, Mesenteric |                              | Hyperplasia                  | Lymphoid, Mild      |
| * Mammary Gland          |                              | Fibroadenoma                 |                     |
|                          |                              | Hyperplasia                  | Mild                |
|                          | [ Fibroadenoma TGLs = 2-21 ] |                              |                     |
|                          | [ Hyperplasia TGLs = 1-8 ]   |                              |                     |
| * Pancreas               |                              | Atrophy                      | Minimal             |
| * Pituitary Gland        | Pars Distalis                | Adenoma                      |                     |
|                          | Pars Distalis                | Cyst                         |                     |
|                          | [ Adenoma TGLs = 5-1 ]       |                              |                     |
|                          | [ Cyst TGLs = 5-1 ]          |                              |                     |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 342

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112307

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Mild

[ Hyperplasia TGLs = 3-7 ]

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 343

**TMT:** 6  
**DOSE:** 30 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 112308

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[ Cataract TGLs = 5-44 ]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	[ Hepatocellular Adenoma TGLs = 3-21 ]	Hepatocellular Adenoma	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Ectasia	Mild
	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
	[ Ectasia TGLs = 4-3 ]		
	[ Hemorrhage TGLs = 4-3 ]		
	[ Hyperplasia TGLs = 4-3 ]		
	[ Pigmentation TGLs = 4-3 ]		
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
	[ Cyst TGLs = 7-1 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 343

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112308

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	[ Hyperplasia TGLs = 7-1 ]	SOA	Hyperkeratosis	Minimal
		Epidermis	Hyperplasia	Moderate
* Spleen	[ Hyperplasia TGLs = 6-22 ]		Hematopoietic Cell Proliferation	Mild
* Thymus			Cyst	
* Thyroid Gland		C Cell	Adenoma	
* Uterus			Polyp Stromal	Multiple
	[ Polyp Stromal TGLs = 1-23,2-24 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 344

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112309

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Pancreas               | * Parathyroid Gland        |
| * Salivary Glands         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 |                             |                          |                            |

**MISSING**

- |                          |         |                   |          |
|--------------------------|---------|-------------------|----------|
| * Lymph Node, Mandibular | * Ovary | * Urinary Bladder | * Uterus |
|--------------------------|---------|-------------------|----------|

**OBSERVATIONS**

- |  |                |  |                  |
|--|----------------|--|------------------|
| * Adrenal Cortex                       |                | Accessory Adrenal Cortical Nodule<br>Hyperplasia | Focal, Minimal   |
| * Bone Marrow                          |                | Myelofibrosis                                    | Minimal          |
| * Clitoral Gland                       |                | Hyperplasia                                      | Mild             |
| * Heart                                |                | Sarcoma  |                  |
| * Kidney                               |                | Nephropathy                                      | Minimal          |
| * Liver                                |                | Angiectasis                                      | Mild             |
|  |                | Basophilic Focus                                 |                  |
|  |                | Clear Cell Focus                                 |                  |
|  |                | Infiltration Cellular                            | Mixed Cell, Mild |
|  |                | Mixed Cell Focus                                 |                  |
| Note: MIXED CELL FOCUS IS ON SLIDE 22. |                |  |                  |
|  |                | [ Angiectasis TGLs = 3-22 ]                      |                  |
| * Lung                                 | Alveolar Epith | Hyperplasia                                      | Mild             |
|  |                | Infiltration Cellular                            | Histiocyte, Mild |
|  |                | [ Hyperplasia TGLs = 4-23 ]                      |                  |
|  |                | [ Infiltration Cellular TGLs = 4-23 ]            |                  |
| * Mammary Gland                        |                | Hyperplasia                                      | Mild             |
|  |                | [ Hyperplasia TGLs = 1-8 ]                       |                  |
| * Nose                                 | Respirat Epith | Foreign Body                                     |                  |
|  |                | Hyperplasia                                      | Minimal          |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 344

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112309

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Inflammation	Chronic, Minimal
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	
* Skin	Pars Distalis	Hyperplasia	Focal, Mild
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
	[ Hyperplasia TGLs = 2-21 ]		
	[ Ulcer TGLs = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Cyst	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 345

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112310

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| * Salivary Glands         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                    |                  |
|--------------------------|---|--------------------|------------------|
| * Adrenal Cortex         |   | Degeneration       | Fatty, Minimal   |
| * Brain                  |   | Compression        | Mild             |
|                          | [ Compression TGLs = 9-1 ]  |                    |                  |
| * Clitoral Gland         |   | Carcinoma          |                  |
|                          | [ Carcinoma TGLs = 1-8 ]  |                    |                  |
| * Heart                  |   | Cardiomyopathy     | Mild             |
| * Kidney                 |   | Inflammation       | Chronic, Mild    |
|                          |   | Nephropathy        | Moderate         |
| * Liver                  |   | Basophilic Focus   |                  |
|                          |   | Eosinophilic Focus |                  |
|                          |   | Hemorrhage         | Moderate         |
|                          | Note: THE EOSINOPHILIC FOCUS IS ON SLIDE 25 ENCOMPASSING AN AREA OF HEMORRHAGE. |                    |                  |
|                          | [ Hemorrhage TGLs = 8-25 ]  |                    |                  |
| * Lung                   | Alveolar Epith  | Hyperplasia        | Mild             |
|                          |   | Inflammation       | Chronic, Minimal |
| * Lymph Node, Mesenteric |   | Hyperplasia        | Lymphoid, Mild   |
| * Mammary Gland          |   | Fibroadenoma       |                  |
|                          |   | Hyperplasia        | Moderate         |
|                          | [ Fibroadenoma TGLs = 2-21 ]  |                    |                  |
|                          | [ Hyperplasia TGLs = 3-22,4-8 ]   |                    |                  |
| Mesentery                | Fat   | Necrosis           | Marked           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 345

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 112310

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 5-23,6-24 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 10-1 ]			
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	Control Epider	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 346

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 587

**DOSE:** 30 MG/KG

**DISP:** Natural Death

**HISTO:** 112311

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                           |                             |                          |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla        | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus              | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic     | * Lung                    | * Nose                      | * Pancreas               |
| * Parathyroid Gland      | * Salivary Glands         | * Skin                      | * Spleen                 |
| * Stomach, Forestomach   | * Stomach, Glandular      | * Thymus                    | * Trachea                |
| * Urinary Bladder        |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Jejunum

**OBSERVATIONS**

- |                          |                            |                                   |                |
|--------------------------|----------------------------|-----------------------------------|----------------|
| * Adrenal Cortex         |                            | Accessory Adrenal Cortical Nodule |                |
| * Brain                  |                            | Compression                       | Mild           |
|                          | [ Compression TGLs = 4-1 ] |                                   |                |
| * Heart                  |                            | Cardiomyopathy                    | Mild           |
| * Kidney                 |                            | Nephropathy                       | Moderate       |
| * Liver                  |                            | Cyst                              |                |
| * Lymph Node, Mesenteric |                            | Hyperplasia                       | Lymphoid, Mild |
| * Mammary Gland          |                            | Hyperplasia                       | Moderate       |
|                          | [ Hyperplasia TGLs = 1-8 ] |                                   |                |
| * Ovary                  |                            | Cyst                              |                |
|                          | [ Cyst TGLs = 3-7 ]        |                                   |                |
| * Pituitary Gland        | Pars Distalis              | Adenoma                           |                |
|                          | [ Adenoma TGLs = 5-1 ]     |                                   |                |
| * Thyroid Gland          |                            | Ultimobranchial Cyst              | Moderate       |
| * Uterus                 |                            | Polyp Stromal                     |                |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 347

**TMT:** 6  
**DOSE:** 30 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 112312

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Minimal
* Clitoral Gland		Inflammation	Chronic, Marked
[ Inflammation TGLs = 1-8 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation	Mild Histiocyte, Minimal Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
Note: MAMMARY GLAND HYPERPLASIA IS MOST PROMINENT IN AREA NEXT TO CLITORAL GLAND LESION.			
	[ Hyperplasia TGLs = 2-8 ]		
Mesentery	Fat	Necrosis Sarcoma	Moderate
	[ Necrosis TGLs = 6-22 ]		
	[ Sarcoma TGLs = 5-21 ]		
* Ovary		Cyst	
	[ Cyst TGLs = 3-7 ]		
* Pituitary Gland	Pars Distalis	Cyst	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 347

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112312

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

\* Uterus

Pigmentation

Hematopoietic Cell Proliferation

Hyperplasia

Polyp Stromal

Mild

Moderate

Cystic, Minimal

[ Polyp Stromal TGLs = 4-23 ]

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 348

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112313

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
	[ Compression TGLs = 4-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	[ Eosinophilic Focus TGLs = 6-22 ]		
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery		Accessory Spleen	
	[ Accessory Spleen TGLs = 3-21 ]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Skin	Control Epider	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLs = 7-23 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 349

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112314

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Bone                    | * Brain                     | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Ovary                   | * Parathyroid Gland         | * Salivary Glands        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                           |                             |                          |

**MISSING**

- |                   |                          |
|-------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Mandibular |
|-------------------|--------------------------|

**OBSERVATIONS**

- |   |               |                                  |                              |
|---|---------------|----------------------------------|------------------------------|
| * Bone Marrow                                 |               | Histiocytic Sarcoma              | Metastatic (Skeletal Muscle) |
| * Heart                                       |               | Histiocytic Sarcoma              | Metastatic (Skeletal Muscle) |
| [ Histiocytic Sarcoma TGLs = 6-12,7-12,8-12 ] |               |                                  |                              |
| * Kidney                                      | Renal Tubule  | Accumulation, Hyaline Droplet    | Marked                       |
|   |               | Nephropathy                      | Minimal                      |
| * Liver                                       |               | Basophilic Focus                 |                              |
|   |               | Histiocytic Sarcoma              | Metastatic (Skeletal Muscle) |
|   |               | Mixed Cell Focus                 |                              |
| [ Basophilic Focus TGLs = 2-6 ]               |               |                                  |                              |
| [ Mixed Cell Focus TGLs = 3-23 ]              |               |                                  |                              |
| * Lung  |               | Histiocytic Sarcoma              | Metastatic (Skeletal Muscle) |
| Mesentery                                     | Fat           | Necrosis                         | Marked                       |
| [ Necrosis TGLs = 1-21 ]                      |               |                                  |                              |
| * Pancreas                                    |               | Cyst                             |                              |
| * Pituitary Gland                             | Pars Distalis | Cyst                             |                              |
| Skeletal Muscle                               |               | Histiocytic Sarcoma              |                              |
| [ Histiocytic Sarcoma TGLs = 4-22 ]           |               |                                  |                              |
| * Skin  | SOA           | Hyperkeratosis                   | Minimal                      |
| * Spleen                                      |               | Hematopoietic Cell Proliferation | Mild                         |
| * Thymus                                      |               | Histiocytic Sarcoma              | Metastatic (Skeletal Muscle) |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 349

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 30 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112314

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Histiocytic Sarcoma TGLs = 5-24 ]

\* Thyroid Gland

Ultimobranchial Cyst

Moderate

---

**PRIMARY CAUSE OF DEATH**

- Skeletal Muscle Histiocytic Sarcoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 350

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112315

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	[ Basophilic Focus TGLs = 5-6 ]		
	[ Leukemia Mononuclear TGLs = 5-6 ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Leukemia Mononuclear	
	[ Ectasia TGLs = 6-3 ]		
	[ Leukemia Mononuclear TGLs = 6-3 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 2-22 ]		
Mesentery	Fat	Necrosis	Minimal
	[ Necrosis TGLs = 4-23 ]		
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 350

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 30 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112315

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Skin

[ Keratoacanthoma TGLs = 1-21 ]

Keratoacanthoma

\* Spleen

[ Leukemia Mononuclear TGLs = 3-6 ]

Leukemia Mononuclear

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 351

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112316

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Salivary Glands         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           | * Uterus                 |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Thymus

**OBSERVATIONS**

- |                          |  |                            |                     |
|--------------------------|--|----------------------------|---------------------|
| * Clitoral Gland         |  | Adenoma                    |                     |
|                          |  | Inflammation               | Chronic, Moderate   |
|                          | [ Adenoma TGLs = 2-8 ]                     |                            |                     |
| * Kidney                 |  | Nephropathy                | Minimal             |
| * Liver                  |  | Basophilic Focus           |                     |
|                          |  | Hepatodiaphragmatic Nodule |                     |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 3-21 ] |                            |                     |
| * Lung                   |  | Infiltration Cellular      | Histiocyte, Minimal |
|                          |  | Inflammation               | Chronic, Minimal    |
| * Lymph Node, Mesenteric |  | Hyperplasia                | Lymphoid, Mild      |
| * Mammary Gland          |  | Fibroadenoma               | Multiple            |
|                          |  | Hyperplasia                | Moderate            |
|                          | [ Fibroadenoma TGLs = 1-8,5-22 ]           |                            |                     |
|                          | [ Hyperplasia TGLs = 1-8 ]                 |                            |                     |
| * Nose                   | Respirat Epith                             | Hyperplasia                | Minimal             |
|                          |  | Inflammation               | Chronic, Minimal    |
| * Pituitary Gland        | Pars Distalis                              | Adenoma                    |                     |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 351

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112316

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
[ Cyst TGLs = 4-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Control Epider	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 352

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 593

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112317

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Ovary
* Pancreas	Peripheral Nerve	* Salivary Glands	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Brain		Compression	Moderate
	[ Compression TGLs = 3-1 ]		
* Eye		Cataract	Moderate
		Retina	Marked
	[ Cataract TGLs = 2-44 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	[ Nephropathy TGLs = 1-5 ]		
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Moderate
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 4-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

Note: EPIDERMAL HYPERPLASIA (ACANTHOSIS) OF MILD SEVERITY OF APPLICATION SITE SKIN.

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 352

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 593

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112317

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Moderate

\* Thyroid Gland

C Cell

Carcinoma

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

- Thyroid Gland C Cell Carcinoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 353

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112318

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	Mesentery
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
[ Adenoma TGLs = 3-8 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation Nephropathy	Chronic, Mild Moderate
* Liver		Basophilic Focus Eosinophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[ Fibroadenoma TGLs = 2-21 ]			
[ Hyperplasia TGLs = 1-8 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 5-1 ]			
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

---

**ANIMAL NUM:** 353

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112318

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Mild

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 354

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112319

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Nose                      |
| * Ovary                  | * Parathyroid Gland        | * Salivary Glands         | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

**MISSING**

- |                          |          |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

**OBSERVATIONS**

- |                          |                             |                                   |                     |
|--------------------------|-----------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex         |                             | Accessory Adrenal Cortical Nodule |                     |
| * Heart                  |                             | Cardiomyopathy                    | Moderate            |
| * Kidney                 |                             | Nephropathy                       | Mild                |
| * Liver                  |                             | Basophilic Focus                  |                     |
| * Lung                   |                             | Infiltration Cellular             | Histiocyte, Minimal |
| Lymph Node               | Mediastinal                 | Hemorrhage                        | Marked              |
|                          | Deep Cervical               | Hemorrhage                        | Marked              |
|                          | Mediastinal                 | Pigmentation                      | Moderate            |
|                          | [ Hemorrhage TGLs = 3-3 ]   |                                   |                     |
|                          | [ Hemorrhage TGLs = 4-22 ]  |                                   |                     |
|                          | [ Pigmentation TGLs = 3-3 ] |                                   |                     |
| * Lymph Node, Mesenteric |                             | Hyperplasia                       | Lymphoid, Mild      |
| * Mammary Gland          |                             | Hyperplasia                       | Mild                |
|                          | [ Hyperplasia TGLs = 2-8 ]  |                                   |                     |
| Mesentery                | Fat                         | Necrosis                          | Moderate            |
|                          | [ Necrosis TGLs = 1-21 ]    |                                   |                     |
| * Pancreas               |                             | Cyst                              |                     |
| * Pituitary Gland        | Pars Distalis               | Cyst                              |                     |
| * Skin                   | SOA                         | Hyperkeratosis                    | Mild                |
|                          | Epidermis, SOA              | Hyperplasia                       | Minimal             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 355

TMT: 8

SEX: Female

DAY ON TEST: 537

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                           |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                   | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus              | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Kidney                  |
| * Mammary Gland             | * Nose                   | * Parathyroid Gland      | * Salivary Glands         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                 | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                 |                           |

MISSING

- \* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- |                          |                     |                                  |                     |
|--------------------------|---------------------|----------------------------------|---------------------|
| * Heart                  |                     | Cardiomyopathy                   | Minimal             |
| * Liver                  |                     | Basophilic Focus                 |                     |
| * Lung                   |                     | Infiltration Cellular            | Histiocyte, Minimal |
| * Lymph Node, Mesenteric |                     | Hyperplasia                      | Lymphoid, Mild      |
| * Ovary                  |                     | Cyst                             |                     |
|                          | [ Cyst TGLs = 1-7 ] |                                  |                     |
| * Pancreas               |                     | Atrophy                          | Minimal             |
|                          |                     | Cyst                             |                     |
| * Pituitary Gland        | Pars Distalis       | Cyst                             |                     |
| * Skin                   | SOA                 | Hyperkeratosis                   | Marked              |
| * Spleen                 |                     | Hematopoietic Cell Proliferation | Mild                |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 356

TMT: 8

SEX: Female

DAY ON TEST: 613

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                           |                             |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla          | * Bone                   | * Bone Marrow             | * Clitoral Gland            |
| * Esophagus                | * Eye                    | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Liver                   | * Lung                      |
| * Nose                     | * Parathyroid Gland      | * Salivary Glands         | * Stomach, Forestomach      |
| * Thymus                   | * Thyroid Gland          | * Trachea                 | * Urinary Bladder           |
| Vagina                     |                          |                           |                             |

MISSING

- \* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- \* Intestine Small, Ileum

OBSERVATIONS

- |                          |                            |                                   |                |
|--------------------------|----------------------------|-----------------------------------|----------------|
| * Adrenal Cortex         |                            | Accessory Adrenal Cortical Nodule |                |
| * Brain                  |                            | Compression                       | Moderate       |
|                          | [ Compression TGLs = 5-1 ] |                                   |                |
| * Kidney                 |                            | Nephropathy                       | Minimal        |
| * Lymph Node, Mesenteric |                            | Hemorrhage                        | Minimal        |
|                          |                            | Hyperplasia                       | Lymphoid, Mild |
|                          |                            | Pigmentation                      | Moderate       |
| * Mammary Gland          |                            | Adenoma                           |                |
|                          | [ Adenoma TGLs = 2-21 ]    | Hyperplasia                       | Moderate       |
|                          | [ Hyperplasia TGLs = 1-8 ] |                                   |                |
| * Ovary                  |                            | Cyst                              |                |
| * Pancreas               |                            | Cyst                              |                |
| * Pituitary Gland        |                            | Adenoma                           |                |
|                          | [ Adenoma TGLs = 6-1 ]     |                                   |                |
| * Skin                   |                            | SOA                               |                |
| * Spleen                 |                            | Hyperkeratosis                    | Moderate       |
|                          |                            | Pigmentation                      | Moderate       |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 356

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 613

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112321

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Glandular

[ Erosion TGLs = 7-22 ]

Erosion

Mild

\* Uterus

[ Polyp Stromal TGLs = 3-7 ]

Polyp Stromal

---

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 357

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112322

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Bone Marrow               | * Brain                  | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric  | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- |                   |                          |
|-------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Mandibular |
|-------------------|--------------------------|

**OBSERVATIONS**

- |                      |                                  |                                   |                  |
|----------------------|----------------------------------|-----------------------------------|------------------|
| * Adrenal Cortex     |                                  | Accessory Adrenal Cortical Nodule |                  |
|                      |                                  | Hyperplasia                       | Focal, Mild      |
| * Clitoral Gland     |                                  | Hyperplasia                       | Mild             |
| * Heart              |                                  | Cardiomyopathy                    | Minimal          |
| * Islets, Pancreatic |                                  | Adenoma                           |                  |
| * Kidney             |                                  | Nephropathy                       | Minimal          |
| * Liver              |                                  | Basophilic Focus                  |                  |
|                      | Bile Duct                        | Hyperplasia                       | Minimal          |
| * Lung               |                                  | Hemorrhage                        | Minimal          |
|                      |                                  | Inflammation                      | Chronic, Minimal |
|                      |                                  | Pigmentation                      | Minimal          |
| * Mammary Gland      |                                  | Fibroadenoma                      |                  |
|                      |                                  | Hyperplasia                       | Moderate         |
|                      | [ Fibroadenoma TGLs = 2-21 ]     |                                   |                  |
|                      | [ Hyperplasia TGLs = 1-8 ]       |                                   |                  |
| Mesentery            |                                  | Accessory Spleen                  |                  |
|                      | [ Accessory Spleen TGLs = 3-22 ] |                                   |                  |
| * Pituitary Gland    | Pars Distalis                    | Cyst                              |                  |
|                      | Pars Intermed                    | Cyst                              |                  |
|                      | Pars Distalis                    | Hyperplasia                       | Focal, Minimal   |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

---

**ANIMAL NUM:** 357

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112322

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Skin

SOA

Hyperkeratosis

Mild

\* Spleen

Hematopoietic Cell Proliferation

Mild

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 358

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112323

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Chronic, Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	[ Basophilic Focus TGLs = 5-6 ]		
	[ Eosinophilic Focus TGLs = 5-6 ]		
	[ Hepatodiaphragmatic Nodule TGLs = 6-23 ]		
	[ Mixed Cell Focus TGLs = 5-6 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 2-21,2-21-1 ]		
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 3-22 ]		
* Pancreas		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 358

TMT: 8

SEX: Female

DAY ON TEST: 716

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112323

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
		Hyperplasia	Focal, Mild
[ Adenoma TGLs = 7-1 ]			
[ Angiectasis TGLs = 8-1 ]			
[ Hyperplasia TGLs = 8-1 ]			
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 359

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 470

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112324

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule
* Lung	Infiltration Cellular Metaplasia
	Histiocyte, Moderate Osseous, Minimal

Note: MILD LYMPHOCYTIC INFILTRATE IN LUNG, PRIMARILY PERIVASCULAR; TDMS SYSTEM WOULD NOT ALLOW TABULATION.

[ Infiltration Cellular TGLs = 2-2 ]

* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
* Mammary Gland	Hyperplasia	Minimal
* Pancreas	Atrophy	Minimal
* Pituitary Gland	Pars Distalis Cyst	
	[ Cyst TGLs = 3-1 ]	
* Skin	SOA Epidermis, SOA	Minimal Minimal
* Spleen	Hematopoietic Cell Proliferation Pigmentation	Mild Moderate
* Thyroid Gland	C Cell Hyperplasia	Minimal
Vagina	Squamous Cell Papilloma	

[ Squamous Cell Papilloma TGLs = 1-7 ]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 360

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112325

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Ovary                     | * Parathyroid Gland      | * Salivary Glands          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                            |                  |
|--------------------------|---|----------------------------|------------------|
| * Brain                  |   | Compression                | Moderate         |
|                          | [ Compression TGLs = 10-1 ]                     |                            |                  |
| * Kidney                 |   | Nephropathy                | Minimal          |
| * Liver                  |   | Basophilic Focus           |                  |
|                          |   | Clear Cell Focus           |                  |
|                          |   | Hepatodiaphragmatic Nodule |                  |
|                          | [ Basophilic Focus TGLs = 4-6 ]                 |                            |                  |
|                          | [ Clear Cell Focus TGLs = 4-6 ]                 |                            |                  |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 5-21,6-22 ] |                            |                  |
| * Lung                   |   | Hemorrhage                 | Moderate         |
|                          | [ Hemorrhage TGLs = 8-2 ]                       |                            |                  |
| * Lymph Node, Mesenteric |   | Hemorrhage                 | Minimal          |
|                          |   | Pigmentation               | Moderate         |
| * Mammary Gland          |   | Hyperplasia                | Moderate         |
|                          | [ Hyperplasia TGLs = 1-8 ]                      |                            |                  |
| Mesentery                | Fat   | Necrosis                   | Minimal          |
|                          | [ Necrosis TGLs = 7-23 ]                        |                            |                  |
| * Nose                   |   | Inflammation               | Chronic, Minimal |
| * Pancreas               |   | Atrophy                    | Minimal          |
|                          |   | Cyst                       |                  |
| * Pituitary Gland        | Pars Distalis                                   | Adenoma                    |                  |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 360

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112325

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 9-1 ]

* Skin	SOA	Hyperkeratosis	Mild
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild

[ Hyperplasia TGLs = 2-7 ]

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 361

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 718

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112326

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         | Vagina                      |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |                               |                     |
|--------------------------|---|-------------------------------|---------------------|
| * Adrenal Cortex         |   | Leukemia Mononuclear          |                     |
| * Adrenal Medulla        |   | Leukemia Mononuclear          |                     |
| * Bone Marrow            |   | Leukemia Mononuclear          |                     |
| * Clitoral Gland         |   | Adenoma                       |                     |
| * Kidney                 | Renal Tubule                                  | Accumulation, Hyaline Droplet | Mild                |
|                          | Renal Tubule                                  | Leukemia Mononuclear          |                     |
|                          | [ Accumulation, Hyaline Droplet TGLs = 12-5 ] | Pigmentation                  | Mild                |
|                          | [ Leukemia Mononuclear TGLs = 12-5 ]          |                               |                     |
|                          | [ Pigmentation TGLs = 12-5 ]                  |                               |                     |
| * Liver                  | Hepatocyte                                    | Hepatocellular Adenoma        |                     |
|                          |   | Hyperplasia                   | Focal, Moderate     |
|                          |   | Leukemia Mononuclear          |                     |
|                          | [ Hepatocellular Adenoma TGLs = 15-27 ]       |                               |                     |
|                          | [ Hyperplasia TGLs = 14-26 ]                  |                               |                     |
|                          | [ Leukemia Mononuclear TGLs = 11-6,13-6 ]     |                               |                     |
| * Lung                   |   | Infiltration Cellular         | Histiocyte, Minimal |
|                          |   | Leukemia Mononuclear          |                     |
|                          |   | Leukemia Mononuclear          |                     |
| * Lymph Node, Mesenteric |   |                               |                     |
|                          | [ Leukemia Mononuclear TGLs = 9-5,10-25 ]     |                               |                     |
| * Mammary Gland          |   | Adenoma                       |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 361

TMT: 8

SEX: Female

DAY ON TEST: 718

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112326

ORGAN AND ACCOUNTABLE SITE STATUS

		Fibroadenoma	
		Hyperplasia	Moderate
[ Adenoma TGLs = 3-23 ]			
[ Fibroadenoma TGLs = 1-21 ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLs = 8-24 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
		Leukemia Mononuclear	
* Salivary Glands		Schwannoma Malignant	
[ Schwannoma Malignant TGLs = 2-22 ]			
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 5-6 ]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
Note: UTERINE STROMAL POLYP IS RELATIVELY SMALL.			
[ Polyp Stromal TGLs = 7-7 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Salivary Glands Schwannoma Malignant

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 362

TMT: 8  
 DOSE: 90 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 632  
 HISTO: 112327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                          |                            |                          |
|---------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex          | * Brain                  | * Clitoral Gland           | * Esophagus              |
| * Eye                     | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                    | * Nose                   | * Ovary                    | * Parathyroid Gland      |
| * Salivary Glands         | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland          |
| * Trachea                 | * Urinary Bladder        | * Uterus                   |                          |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                             |  |                                  |          |
|-----------------------------|--|----------------------------------|----------|
| * Adrenal Medulla           |  | Hyperplasia                      | Minimal  |
| * Bone                      |  | Fibrous Osteodystrophy           | Moderate |
| * Bone Marrow               |  | Hyperplasia                      | Mild     |
| * Heart                     |  | Cardiomyopathy                   | Mild     |
| * Intestine Small, Duodenum | Epithelium   | Hyperplasia                      | Mild     |
| * Kidney                    |  | Nephropathy                      | Marked   |
|                             | [ Nephropathy TGLs = 3-5 ]   |                                  |          |
| * Liver                     |  | Basophilic Focus                 |          |
| * Lymph Node, Mesenteric    |  | Atrophy                          | Moderate |
|                             |  | Hemorrhage                       | Minimal  |
| * Mammary Gland             |  | Hyperplasia                      | Moderate |
|                             | [ Hyperplasia TGLs = 2-8 ]   |                                  |          |
| * Pancreas                  | Acinus   | Cytoplasmic Alteration           | Marked   |
| * Pituitary Gland           | Pars Distalis  | Angiectasis                      | Moderate |
|                             | Pars Distalis  | Cyst                             |          |
|                             | [ Angiectasis TGLs = 4-1 ]   |                                  |          |
| * Skin                      | SOA  | Hyperkeratosis                   | Mild     |
|                             | Control  | Hyperkeratosis                   | Minimal  |
|                             | Epidermis, SOA   | Hyperplasia                      | Minimal  |
|                             | Note: SECTION OF NORMAL BONE IN APPLICATION SITE SKIN ON SLIDE 65; APPARENTLY INADVERTANTLY INCLUDED FROM UNDERLYING SKELETON. |                                  |          |
| * Spleen                    |  | Hematopoietic Cell Proliferation | Moderate |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 362

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112327

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Ulcer

Moderate

---

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 363

TMT: 8  
 DOSE: 90 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 677  
 HISTO: 112328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Carcinoma	Metastatic (Uterus)
[ Carcinoma TGLs = 6-23,7-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[ Fibroadenoma TGLs = 1-21, 1-21-1 ]			
Mesentery		Carcinoma	Metastatic (Uterus)
Note: METASTATIC UTERINE CARCINOMA IS IN MESENTERY ON SLIDES 4 AND 22.			
[ Carcinoma TGLs = 4-22 ]			
* Pancreas		Carcinoma	Metastatic (Uterus)
		Cyst	
[ Carcinoma TGLs = 5-7 ]			
* Pituitary Gland	Pars Distalis	Cyst	
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 363

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112328

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Carcinoma

[ Carcinoma TGLs = 3-7 ]

---

PRIMARY CAUSE OF DEATH

- Uterus Carcinoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 364

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112329

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric  | * Ovary                     |
| * Parathyroid Gland      | * Salivary Glands          | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                      |                                      |  |  |
|----------------------|--------------------------------------|--|--|
| * Adrenal Cortex     |                                      | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hypertrophy<br>Inflammation | Fatty, Mild<br>Focal, Minimal<br>Chronic, Mild |
| * Clitoral Gland     |                                      | Adenoma  |  |
| * Islets, Pancreatic |                                      | Nephropathy  | Minimal  |
| * Kidney             |                                      | Basophilic Focus<br>Mixed Cell Focus   |  |
| * Liver              |                                      |  |  |
|                      | [ Mixed Cell Focus TGLs = 6-6,7-22 ] |  |  |
| * Lung               |                                      | Infiltration Cellular  | Histiocyte, Minimal                            |
| Lymph Node           | Pancreatic                           | Hemorrhage   | Mild   |
|                      | [ Hemorrhage TGLs = 4-7 ]            |  |  |
| * Mammary Gland      |                                      | Hyperplasia  | Moderate                                       |
| Mesentery            | Fat                                  | Necrosis   | Moderate                                       |
|                      | [ Necrosis TGLs = 5-21 ]             |  |  |
| * Nose               |                                      | Foreign Body   |  |
| * Pancreas           |                                      | Atrophy<br>Cyst  | Mild   |
|                      | [ Atrophy TGLs = 3-7 ]               |  |  |
| * Pituitary Gland    | Pars Distalis                        | Adenoma  |  |
|                      | [ Adenoma TGLs = 8-1 ]               |  |  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 364

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112329

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin	SOA	Hyperkeratosis	Marked
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Moderate
		Polyp Stromal	
	[ Hyperplasia TGLs = 2-7 ]		
	[ Polyp Stromal TGLs = 1-7 ]		



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 365

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 493

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112330

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Nose                      | * Ovary                  | * Parathyroid Gland        | * Salivary Glands         |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                       |                       |                    |
|--------------------------|---------------------------------------|-----------------------|--------------------|
| * Bone Marrow            |                                       | Leukemia Mononuclear  |                    |
| * Kidney                 |                                       | Leukemia Mononuclear  |                    |
|                          | Renal Tubule                          | Pigmentation          | Moderate           |
| * Liver                  |                                       | Leukemia Mononuclear  |                    |
|                          | [ Leukemia Mononuclear TGLs = 10-6 ]  |                       |                    |
| * Lung                   |                                       | Infiltration Cellular | Histiocyte, Marked |
|                          |                                       | Leukemia Mononuclear  |                    |
|                          | [ Infiltration Cellular TGLs = 12-2 ] |                       |                    |
|                          | [ Leukemia Mononuclear TGLs = 12-2 ]  |                       |                    |
| Lymph Node               | Pancreatic                            | Leukemia Mononuclear  |                    |
|                          | [ Leukemia Mononuclear TGLs = 5-7 ]   |                       |                    |
| * Lymph Node, Mesenteric |                                       | Leukemia Mononuclear  |                    |
|                          | [ Leukemia Mononuclear TGLs = 6-5 ]   |                       |                    |
| * Mammary Gland          |                                       | Hyperplasia           | Moderate           |
|                          | [ Hyperplasia TGLs = 2-8 ]            |                       |                    |
| Mesentery                | Fat                                   | Necrosis              | Mild               |
|                          | [ Necrosis TGLs = 7-22 ]              |                       |                    |
| * Pancreas               |                                       | Cyst                  |                    |
|                          |                                       | Leukemia Mononuclear  |                    |
| * Pituitary Gland        | Pars Distalis                         | Angiectasis           | Moderate           |
|                          | Pars Distalis                         | Hyperplasia           | Focal, Mild        |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 365

TMT: 8

SEX: Female

DAY ON TEST: 493

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112330

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Angiectasis TGLs = 13-1 ]			
	[ Hyperplasia TGLs = 13-1 ]			
* Skin		SOA	Hyperkeratosis	Marked
		Control	Hyperkeratosis	Minimal
		Epidermis, SOA	Hyperplasia	Minimal
* Spleen			Hemorrhage	Moderate
			Leukemia Mononuclear	
	[ Hemorrhage TGLs = 4-21 ]			
	[ Leukemia Mononuclear TGLs = 3-6 ]			
* Stomach, Forestomach		Epithelium	Hyperplasia	Moderate
			Ulcer	Moderate
* Stomach, Glandular			Erosion	Minimal
* Uterus			Polyp Stromal	Multiple
	[ Polyp Stromal TGLs = 8-23,9-7 ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 366

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112331

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Ovary                     |
| * Parathyroid Gland      | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                      |                       |                     |
|--------------------------|--------------------------------------|-----------------------|---------------------|
| * Clitoral Gland         |                                      | Carcinoma             |                     |
|                          | [ Carcinoma TGLs = 2-21 ]            |                       |                     |
| * Heart                  |                                      | Cardiomyopathy        | Moderate            |
| * Kidney                 |                                      | Nephropathy           | Minimal             |
| * Liver                  |                                      | Basophilic Focus      |                     |
|                          |                                      | Infiltration Cellular | Mixed Cell, Minimal |
|                          |                                      | Leukemia Mononuclear  |                     |
| * Lung                   |                                      | Infiltration Cellular | Histiocyte, Minimal |
|                          | [ Infiltration Cellular TGLs = 4-2 ] |                       |                     |
| * Lymph Node, Mesenteric |                                      | Leukemia Mononuclear  |                     |
| * Mammary Gland          |                                      | Hyperplasia           | Moderate            |
|                          | [ Hyperplasia TGLs = 1-8 ]           |                       |                     |
| * Nose                   |                                      | Inflammation          | Chronic, Minimal    |
| * Pancreas               |                                      | Atrophy               | Moderate            |
|                          |                                      | Cyst                  |                     |
| * Pituitary Gland        | Pars Distalis                        | Hyperplasia           | Focal, Mild         |
| * Salivary Glands        |                                      | Atrophy               | Minimal             |
| * Skin                   | SOA                                  | Hyperkeratosis        | Marked              |
|                          | Epidermis                            | Hyperplasia           | Marked              |
|                          | Epidermis, SOA                       | Hyperplasia           | Mild                |
|                          |                                      | Ulcer                 | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 366

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112331

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 5-22,6-23 ]

[ Ulcer TGLs = 5-22,6-23 ]

\* Spleen

Hematopoietic Cell Proliferation

Mild

Leukemia Mononuclear

\* Uterus

Polyp Stromal

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 367

**TMT:** 8  
**DOSE:** 90 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 701  
**HISTO:** 112332

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                          |                           |                             |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla        | * Bone                    | * Bone Marrow               |
| * Clitoral Gland         | * Esophagus              | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Nose                    | * Ovary                     |
| * Pancreas               | * Parathyroid Gland      | * Salivary Glands         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                 | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                 |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

- \* Intestine Small, Jejunum

**OBSERVATIONS**

- |                          |   |                            |                    |
|--------------------------|---|----------------------------|--------------------|
| * Brain                  |   | Compression                | Mild               |
|                          | [ Compression TGLs = 4-1 ]  |                            |                    |
| * Heart                  |   | Cardiomyopathy             | Mild               |
| * Kidney                 |   | Nephropathy                | Mild               |
| * Liver                  |   | Hepatodiaphragmatic Nodule |                    |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 5-21 ]  |                            |                    |
| * Lung                   |   | Pigmentation               | Mild               |
|                          | Note: PIGMENTATION CONSISTS OF MACROPHAGES CONTAINING HEMOSIDERIN-LIKE MATERIAL OCCURRING SINGULARY AND IN AGGREGATES MAINLY IN PERIVASCULAR AREAS. |                            |                    |
|                          | [ Pigmentation TGLs = 2-2 ]   |                            |                    |
| * Lymph Node, Mesenteric |   | Hemorrhage                 | Minimal            |
|                          |   | Hyperplasia                | Lymphoid, Moderate |
| * Mammary Gland          |   | Hyperplasia                | Moderate           |
|                          | [ Hyperplasia TGLs = 1-8 ]  |                            |                    |
| * Pituitary Gland        | Pars Distalis   | Adenoma                    |                    |
|                          | [ Adenoma TGLs = 3-1 ]  |                            |                    |
| * Skin                   | SOA   | Hyperkeratosis             | Moderate           |
|                          | Epidermis, SOA  | Hyperplasia                | Minimal            |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 367

TMT: 8

SEX: Female

DAY ON TEST: 701

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112332

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen			Hematopoietic Cell Proliferation	Mild
			Pigmentation	Moderate
Tongue		Epithelium	Hyperplasia	Mild
	[ Hyperplasia	TGLs = 6-22 ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 368

**TMT:** 8  
**DOSE:** 90 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 590  
**HISTO:** 112333

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Nose                     | * Ovary                   | * Parathyroid Gland         | * Salivary Glands        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

**OBSERVATIONS**

- |                          |  |                                   |                 |
|--------------------------|--|-----------------------------------|-----------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule |                 |
|                          |  | Degeneration                      | Fatty, Moderate |
| * Brain                  |  | Compression                       | Marked          |
|                          | [ Compression TGLs = 4-1 ]                 |                                   |                 |
| * Heart                  |  | Cardiomyopathy                    | Moderate        |
| * Kidney                 |  | Nephropathy                       | Minimal         |
| * Liver                  |  | Hepatodiaphragmatic Nodule        |                 |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 2-21 ] |                                   |                 |
| * Lymph Node, Mesenteric |  | Hyperplasia                       | Lymphoid, Mild  |
| * Mammary Gland          |  | Fibroadenoma                      |                 |
|                          | [ Fibroadenoma TGLs = 6-22 ]               | Hyperplasia                       | Moderate        |
|                          | [ Hyperplasia TGLs = 1-8 ]                 |                                   |                 |
| * Pancreas               |  | Atrophy                           | Minimal         |
|                          |  | Cyst                              |                 |
| * Pituitary Gland        | Pars Distalis                              | Adenoma                           |                 |
|                          | [ Adenoma TGLs = 5-1 ]                     |                                   |                 |
| * Skin                   | SOA  | Hyperkeratosis                    | Minimal         |
| * Spleen                 |  | Pigmentation                      | Moderate        |

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 369

TMT: 8

SEX: Female

DAY ON TEST: 17

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Small, Ileum	* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	--------------------------	---------------------

OBSERVATIONS

* Lung	Serosa	Hyperplasia	Minimal
Lymph Node	Pancreatic	Hemorrhage	Minimal
[ Hemorrhage TGLs = 2-7 ]			
* Lymph Node, Mesenteric		Atrophy	Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 370

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112335

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Nose                   | * Ovary                    | * Parathyroid Gland       | * Salivary Glands           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | * Uterus                  |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                |   |                     |
|--------------------------|----------------|---|---------------------|
| * Adrenal Cortex         |                | Accessory Adrenal Cortical Nodule       |                     |
| * Heart                  |                | Cardiomyopathy                          | Minimal             |
| * Kidney                 |                | Nephropathy                             | Mild                |
| * Liver                  |                | Basophilic Focus                        |                     |
|                          |                | Clear Cell Focus                        |                     |
|                          |                | Infiltration Cellular                   | Mixed Cell, Minimal |
| * Lymph Node, Mesenteric |                | Hemorrhage                              | Minimal             |
|                          |                | Hyperplasia                             | Lymphoid, Minimal   |
| * Mammary Gland          |                | Hyperplasia                             | Moderate            |
| Mesentery                | Fat            | Necrosis                                | Mild                |
|                          |                | [ Necrosis TGLs = 1-21 ]                |                     |
| * Pancreas               |                | Cyst                                    |                     |
| * Pituitary Gland        | Pars Distalis  | Angiectasis                             | Marked              |
|                          | Pars Distalis  | Hyperplasia                             | Focal, Mild         |
|                          |                | [ Angiectasis TGLs = 3-1 ]              |                     |
| * Skin                   | SOA            | Hyperkeratosis                          | Moderate            |
|                          | Epidermis, SOA | Hyperplasia                             | Mild                |
| * Spleen                 |                | Hematopoietic Cell Proliferation        | Mild                |
| Tongue                   |                | Squamous Cell Papilloma                 |                     |
|                          |                | [ Squamous Cell Papilloma TGLs = 2-22 ] |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 371

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112336

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    |
| * Ovary                  | * Pancreas                 | * Parathyroid Gland       | * Salivary Glands           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | * Uterus                  |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |                           |                  |
|-------------------|--|---------------------------|------------------|
| * Brain           |  | Compression               | Marked           |
|                   | [ Compression TGLs = 5-1 ]             |                           |                  |
| * Heart           |  | Cardiomyopathy            | Moderate         |
| * Kidney          |  | Nephropathy               | Moderate         |
| * Liver           |  | Basophilic Focus          |                  |
|                   |  | Cyst                      |                  |
|                   |  | Eosinophilic Focus        |                  |
|                   | Hepatocyte                             | Vacuolization Cytoplasmic | Mild             |
| * Lung            |  | Inflammation              | Chronic, Minimal |
| * Mammary Gland   |  | Fibroadenoma              | Multiple         |
|                   |  | Hyperplasia               | Mild             |
|                   | [ Fibroadenoma TGLs = 3-22,4-23,7-24 ] |                           |                  |
|                   | [ Hyperplasia TGLs = 1-8 ]             |                           |                  |
| * Nose            |  | Inflammation              | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis                          | Adenoma                   |                  |
|                   | Pars Distalis                          | Hyperplasia               | Focal, Mild      |
|                   | [ Adenoma TGLs = 6-1 ]                 |                           |                  |
| * Skin            | SOA                                    | Hyperkeratosis            | Mild             |
|                   | Epidermis                              | Hyperplasia               | Moderate         |
|                   | Epidermis, SOA                         | Hyperplasia               | Minimal          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

---

**ANIMAL NUM:** 371

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112336

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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Ulcer

Moderate

[ Hyperplasia TGLs = 2-21 ]

[ Ulcer TGLs = 2-21 ]

Hematopoietic Cell Proliferation

Mild

---

\* Spleen

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 372

TMT: 8

SEX: Female

DAY ON TEST: 636

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Thyroid Gland	* Trachea
* Uterus	Vagina		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Necrosis	Moderate
Note: THE HEMORRHAGE AND NECROSIS ARE CONSIDERED SECONDARY TO MONONUCLEAR LEUKEMIA.			
	[ Hemorrhage TGLs = 17-1 ]		
	[ Necrosis TGLs = 17-1 ]		
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	[ Leukemia Mononuclear TGLs = 7-5 ]		
* Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
		Necrosis	Focal, Mild

Note: FOCAL NECROSIS IS ON SLIDE 21.

[ Hyperplasia TGLs = 8-6 ]

[ Hyperplasia TGLs = 9-21,10-22 ]

[ Leukemia Mononuclear TGLs = 8-6 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 372

TMT: 8

SEX: Female

DAY ON TEST: 636

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112337

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Necrosis TGLs = 8-6 ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 14-2 ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 12-3 ]		
	[ Leukemia Mononuclear TGLs = 15-23 ]		
	[ Leukemia Mononuclear TGLs = 5-7 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
* Pancreas		Leukemia Mononuclear	
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Marked
	[ Ulcer TGLs = 11-4 ]		
* Stomach, Glandular		Erosion	Minimal
* Thymus		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 13-3 ]		
* Urinary Bladder		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[ Hemorrhage TGLs = 3-8 ]		
	[ Leukemia Mononuclear TGLs = 3-8 ]		
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 373

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112338

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Bone Marrow               | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Nose                      | * Ovary                  |
| * Salivary Glands          | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

**MISSING**

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

**OBSERVATIONS**

- |                             |  |  |
|-----------------------------|--|--|
| * Adrenal Cortex            | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hypertrophy | Fatty, Mild<br>Focal, Mild             |
| * Clitoral Gland            | Cyst<br>Inflammation   | Chronic, Mild                          |
| [ Cyst TGLs = 2-8 ]         |  |  |
| [ Inflammation TGLs = 2-8 ] |  |  |
| * Heart                     | Cardiomyopathy   | Mild                                   |
| * Kidney                    | Nephropathy  | Mild                                   |
| * Liver                     | Basophilic Focus<br>Clear Cell Focus                             |  |
| * Lung                      | Hemorrhage<br>Inflammation<br>Pigmentation                       | Minimal<br>Chronic, Minimal<br>Minimal |
| * Lymph Node, Mesenteric    | Hyperplasia  | Lymphoid, Mild                         |
| * Mammary Gland             | Hyperplasia  | Mild                                   |
| [ Hyperplasia TGLs = 1-8 ]  |  |  |
| * Pancreas                  | Atrophy<br>Cyst  | Minimal                                |
| * Pituitary Gland           | Pars Distalis<br>Adenoma   | Multiple                               |
| [ Adenoma TGLs = 3-1 ]      |  |  |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 373

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112338

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	SOA	Hyperkeratosis	Moderate
	Control Epider	Hyperplasia	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 374

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112339

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Salivary Glands        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                 |                                   |                  |
|--------------------------|---------------------------------|-----------------------------------|------------------|
| * Adrenal Cortex         |                                 | Accessory Adrenal Cortical Nodule |                  |
| * Brain                  |                                 | Compression                       | Mild             |
|                          | [ Compression TGLs = 6-1 ]      |                                   |                  |
| * Clitoral Gland         |                                 | Cyst                              |                  |
| * Heart                  |                                 | Cardiomyopathy                    | Minimal          |
| * Liver                  |                                 | Basophilic Focus                  |                  |
|                          | [ Basophilic Focus TGLs = 4-6 ] | Clear Cell Focus                  |                  |
|                          | [ Clear Cell Focus TGLs = 4-6 ] | Mixed Cell Focus                  |                  |
|                          | [ Mixed Cell Focus TGLs = 4-6 ] |                                   |                  |
| * Lymph Node, Mesenteric |                                 | Hyperplasia                       | Lymphoid, Mild   |
| * Mammary Gland          |                                 | Hyperplasia                       | Moderate         |
|                          | [ Hyperplasia TGLs = 1-8 ]      |                                   |                  |
| Mesentery                | Fat                             | Necrosis                          | Moderate         |
|                          | [ Necrosis TGLs = 2-21,3-22 ]   |                                   |                  |
| * Nose                   |                                 | Inflammation                      | Chronic, Minimal |
| * Pituitary Gland        | Pars Distalis                   | Adenoma                           |                  |
|                          | [ Adenoma TGLs = 5-1 ]          |                                   |                  |
| * Skin                   | SOA                             | Hyperkeratosis                    | Minimal          |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 374

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112339

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Epidermis, SOA

Hyperplasia

Minimal

Pigmentation

Moderate

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 375

TMT: 8  
 DOSE: 90 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 112340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Nose                      | * Ovary                  | * Parathyroid Gland        | * Salivary Glands         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   |                           |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                          |  |                            |                     |
|--------------------------|--|----------------------------|---------------------|
| * Heart                  |  | Cardiomyopathy             | Mild                |
| * Kidney                 |  | Nephropathy                | Minimal             |
| * Liver                  |  | Basophilic Focus           |                     |
|                          |  | Hepatodiaphragmatic Nodule |                     |
|                          | [ Hepatodiaphragmatic Nodule TGLs = 4-23 ] |                            |                     |
| * Lung                   |  | Hemorrhage                 | Minimal             |
|                          |  | Infiltration Cellular      | Histiocyte, Minimal |
|                          |  | Inflammation               | Chronic, Minimal    |
| Lymph Node               | Mediastinal                                | Hemorrhage                 | Mild                |
|                          | Mediastinal                                | Pigmentation               | Moderate            |
|                          | [ Hemorrhage TGLs = 5-3 ]                  |                            |                     |
|                          | [ Pigmentation TGLs = 5-3 ]                |                            |                     |
| * Lymph Node, Mesenteric |  | Hyperplasia                | Lymphoid, Moderate  |
|                          |  | Pigmentation               | Moderate            |
| * Mammary Gland          |  | Fibroadenoma               | Multiple            |
|                          |  | Hyperplasia                | Moderate            |
|                          | [ Fibroadenoma TGLs = 2-21,3-22 ]          |                            |                     |
|                          | [ Hyperplasia TGLs = 1-8 ]                 |                            |                     |
| * Pancreas               |  | Atrophy                    | Minimal             |
| * Pituitary Gland        | Pars Distalis                              | Adenoma                    |                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 375

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112340

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Pars Distalis	Cyst	
[ Adenoma TGLs = 6-1 ]			
* Skin	SOA	Hyperkeratosis	Marked
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 376

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112341

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	Peripheral Nerve
* Pituitary Gland	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Clitoral Gland		Adenoma	
[ Adenoma TGLs = 3-8 ]			
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[ Cataract TGLs = 6-44 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[ Basophilic Focus TGLs = 5-6 ]			
[ Leukemia Mononuclear TGLs = 5-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[ Fibroadenoma TGLs = 1-21,4-22 ]			
[ Hyperplasia TGLs = 2-8 ]			

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 376

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112341

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas		Cyst	
* Salivary Glands		Atrophy	Mild
* Skin	SOA	Hyperkeratosis	Marked
	Epidermis, SOA	Hyperplasia	Minimal
	Control Epider	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
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 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 377

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112342

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Minimal
* Brain		Compression	Mild
	[ Compression TGLs = 9-1 ]		
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Foreign Body	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
	[ Fibroadenoma TGLs = 2-22,4-24,5-25 ]		
	[ Hyperplasia TGLs = 3-23,6-8 ]		
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 7-26 ]		
* Pancreas		Cyst	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 377

TMT: 8

SEX: Female

DAY ON TEST: 736

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112342

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 8-1 ]			
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[ Hyperplasia TGLs = 1-21 ]			
[ Ulcer TGLs = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 378

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112343

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Nose                      | * Ovary                  | * Parathyroid Gland        | * Salivary Glands         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                     |                                   |          |
|--------------------------|-------------------------------------|-----------------------------------|----------|
| * Adrenal Cortex         |                                     | Accessory Adrenal Cortical Nodule |          |
| * Bone Marrow            |                                     | Leukemia Mononuclear              |          |
| * Brain                  |                                     | Compression                       | Mild     |
|                          | [ Compression TGLs = 11-1 ]         |                                   |          |
| * Clitoral Gland         |                                     | Adenoma                           |          |
|                          | [ Adenoma TGLs = 2-8 ]              |                                   |          |
| * Heart                  |                                     | Cardiomyopathy                    | Moderate |
| * Kidney                 |                                     | Leukemia Mononuclear              |          |
|                          |                                     | Nephropathy                       | Moderate |
| * Liver                  |                                     | Basophilic Focus                  |          |
|                          | [ Basophilic Focus TGLs = 9-6 ]     | Leukemia Mononuclear              |          |
|                          | [ Leukemia Mononuclear TGLs = 9-6 ] |                                   |          |
| * Lung                   | Bronchiole                          | Hyperplasia                       | Mild     |
|                          |                                     | Leukemia Mononuclear              |          |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear              |          |
| * Mammary Gland          |                                     | Fibroadenoma                      |          |
|                          |                                     | Hyperplasia                       | Moderate |
|                          | [ Fibroadenoma TGLs = 1-21 ]        |                                   |          |
| Mesentery                |                                     | Leukemia Mononuclear              |          |

Note: MODERATE FIBROSIS ASSOCIATED WITH MONONUCLEAR LEUKEMIA ON SLIDE 22; NOT TABULATED.

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
Time Report Requested: 12:57:38  
First Dose M/F: 04/05/04 / 04/05/04  
Lab: SRI

ANIMAL NUM: 378

TMT: 8

SEX: Female

DAY ON TEST: 736

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112343

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLs = 3-22 ]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 10-1 ]			
* Skin	SOA	Hyperkeratosis	Marked
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
		Necrosis	Marked
[ Hemorrhage TGLs = 4-23,4-24,4-25,5-23,6-24,7-25 ]			
[ Leukemia Mononuclear TGLs = 8-6 ]			
[ Necrosis TGLs = 4-23,4-24,4-25,5-23,6-24,7-25 ]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 379

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 724

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112344

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder
Vagina			

**OBSERVATIONS**

* Bone		Osteosarcoma	
	[ Osteosarcoma TGLs = 12-22 ]		
* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Mild
	[ Compression TGLs = 13-1 ]		
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Minimal
* Liver	Centrilobular	Necrosis	Moderate
	[ Necrosis TGLs = 9-6 ]		
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8,2-21 ]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 14-1 ]		
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen	Lymph Follic	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Mild
	[ Atrophy TGLs = 8-6 ]		
* Stomach, Glandular		Erosion	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 379

TMT: 8

SEX: Female

DAY ON TEST: 724

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112344

ORGAN AND ACCOUNTABLE SITE STATUS

[ Erosion TGLs = 15-4 ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue	Epithelium	Hyperplasia	Minimal
[ Hyperplasia TGLs = 11-23 ]			
* Uterus		Hyperplasia	Cystic, Moderate
		Polyp Stromal	Multiple
[ Hyperplasia TGLs = 6-7 ]			
[ Polyp Stromal TGLs = 4-25,5-7 ]			

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
- Uterus Polyp Stromal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 380

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112345

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Pancreas               | * Parathyroid Gland        | * Salivary Glands         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           | * Uterus                 |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |  |                            |                     |
|-------------------|--|----------------------------|---------------------|
| * Heart           |  | Cardiomyopathy             | Minimal             |
| * Kidney          |  | Nephropathy                | Minimal             |
| * Liver           |  | Basophilic Focus           |                     |
|                   |  | Hepatodiaphragmatic Nodule |                     |
|                   |  | Leukemia Mononuclear       |                     |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 4-22 ] |                            |                     |
| * Lung            |  | Infiltration Cellular      | Histiocyte, Minimal |
| * Mammary Gland   |  | Hyperplasia                | Mild                |
|                   | [ Hyperplasia TGLs = 2-8 ]                 |                            |                     |
| * Nose            |  | Foreign Body               |                     |
|                   | Respirat Epith                             | Hyperplasia                | Mild                |
|                   |  | Inflammation               | Chronic, Minimal    |
|                   | Olfactory Epi                              | Metaplasia                 | Respiratory, Mild   |
| * Ovary           |  | Cyst                       |                     |
|                   | [ Cyst TGLs = 3-7 ]                        |                            |                     |
| * Pituitary Gland |  | Cyst                       |                     |
| * Skin            |  | Fibroma                    |                     |
|                   | Pars Distalis                              | Hyperkeratosis             | Mild                |
|                   | SOA  | Hyperplasia                | Minimal             |
|                   | Epidermis, SOA                             |                            |                     |
|                   | [ Fibroma TGLs = 1-21 ]                    |                            |                     |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 380

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112345

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Leukemia Mononuclear

\* Thyroid Gland

C Cell

Adenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 381

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 657

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112346

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Eye	Retina	Degeneration	Mild
* Harderian Gland		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLs = 1-8 ]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[ Adenoma TGLs = 3-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 4-21 ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 382

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 493

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112347

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Brain		Compression	Moderate
	[ Compression TGLs = 4-1 ]		
* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLs = 3-3 ]		
* Mammary Gland		Hyperplasia	Marked
	[ Hyperplasia TGLs = 2-8 ]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 5-1 ]		
* Skin	SOA	Hyperkeratosis	Mild
	Control	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 383

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112348

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone                    | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Nose                      | * Ovary                  | * Parathyroid Gland        |
| * Salivary Glands         | * Stomach, Forestomach      | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |   |  |                             |
|--------------------------|---|--|-----------------------------|
| * Adrenal Cortex         |   | Accessory Adrenal Cortical Nodule<br>Degeneration    | Fatty, Moderate             |
| * Adrenal Medulla        |   | Hyperplasia<br>Pheochromocytoma Benign               | Minimal                     |
| * Bone Marrow            |   | Hyperplasia  | Moderate                    |
| * Heart                  |   | Cardiomyopathy<br>Thrombosis                         | Mild<br>Marked              |
|                          | [ Thrombosis TGLs = 10-12 ]   |  |                             |
| * Kidney                 |   | Nephropathy  | Moderate                    |
| * Liver                  |   | Basophilic Focus<br>Leukemia Mononuclear<br>Necrosis | Marked                      |
|                          | Centrilobular<br>[ Necrosis TGLs = 5-6 ]                                |  |                             |
| * Lung                   |   | Hemorrhage<br>Metaplasia                             | Minimal<br>Osseous, Minimal |
|                          | Note: OSSEOUS METAPLASIA IS ON SLIDE 21.<br>[ Hemorrhage TGLs = 11-21 ] |  |                             |
| * Lymph Node, Mesenteric |   | Leukemia Mononuclear                                 |                             |
|                          | [ Leukemia Mononuclear TGLs = 6-5,7-5 ]                                 |  |                             |
| * Mammary Gland          |   | Hyperplasia  | Moderate                    |
| * Pancreas               |   | Atrophy  | Moderate                    |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 383

TMT: 8

SEX: Female

DAY ON TEST: 677

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112348

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst Leukemia Mononuclear Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	[ Angiectasis TGLs = 12-1 ]		
* Skin	SOA	Hyperkeratosis	Minimal
* Spleen	Lymph Follic	Atrophy Fibrosis Leukemia Mononuclear	Marked Marked
	[ Atrophy TGLs = 4-6 ]		
* Stomach, Glandular		Erosion	Moderate
	[ Erosion TGLs = 13-4 ]		
* Thymus		Cyst Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 9-3 ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Vagina		Cyst	
	[ Cyst TGLs = 1-22 ]		

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 384

TMT: 8  
 DOSE: 90 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 112349

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Ovary                     | * Parathyroid Gland      | * Salivary Glands          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                      |                       |                              |
|--------------------------|--------------------------------------|-----------------------|------------------------------|
| * Adrenal Cortex         |                                      | Degeneration          | Fatty, Mild                  |
|                          |                                      | Hyperplasia           | Focal, Minimal               |
| * Brain                  |                                      | Carcinoma             | Metastatic (Pituitary Gland) |
| * Clitoral Gland         |                                      | Cyst                  |                              |
|                          |                                      | Hyperplasia           | Mild                         |
|                          | [ Cyst TGLs = 2-8 ]                  |                       |                              |
|                          | [ Hyperplasia TGLs = 2-8 ]           |                       |                              |
| * Heart                  |                                      | Cardiomyopathy        | Moderate                     |
| * Kidney                 |                                      | Cyst                  |                              |
|                          |                                      | Inflammation          | Chronic, Mild                |
|                          |                                      | Nephropathy           | Moderate                     |
| * Liver                  |                                      | Basophilic Focus      |                              |
| * Lung                   |                                      | Hemorrhage            | Minimal                      |
|                          | Alveolar Epith                       | Hyperplasia           | Moderate                     |
|                          |                                      | Infiltration Cellular | Histiocyte, Mild             |
|                          | [ Hemorrhage TGLs = 5-2 ]            |                       |                              |
|                          | [ Infiltration Cellular TGLs = 5-2 ] |                       |                              |
| * Lymph Node, Mesenteric |                                      | Hemorrhage            | Minimal                      |
|                          |                                      | Hyperplasia           | Lymphoid, Mild               |
| * Mammary Gland          |                                      | Fibroadenoma          |                              |
|                          |                                      | Hyperplasia           | Mild                         |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 384

TMT: 8

SEX: Female

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112349

ORGAN AND ACCOUNTABLE SITE STATUS

[ Fibroadenoma TGLs = 3-21 ]			
[ Hyperplasia TGLs = 1-8 ]			
Mesentery		Accessory Spleen	
[ Accessory Spleen TGLs = 4-22 ]			
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
	Pars Distalis	Cyst	
[ Carcinoma TGLs = 6-1 ]			
* Skin	SOA	Hyperkeratosis	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 385

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112350

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Nose                      | * Parathyroid Gland      | * Salivary Glands          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

**MISSING**

- |             |                          |
|-------------|--------------------------|
| * Esophagus | * Lymph Node, Mandibular |
|-------------|--------------------------|

**OBSERVATIONS**

- |                  |  |                                   |                              |
|------------------|--|-----------------------------------|------------------------------|
| * Adrenal Cortex |  | Accessory Adrenal Cortical Nodule |                              |
|                  |  | Adenoma                           |                              |
|                  |  | Degeneration                      | Fatty, Moderate              |
|                  |  | Hypertrophy                       | Focal, Moderate              |
| * Brain          |  | Carcinoma                         | Metastatic (Pituitary Gland) |
|                  |  | Compression                       | Minimal                      |
|                  |  | Necrosis                          | Minimal                      |
|                  | [ Compression TGLs = 10-1 ]                |                                   |                              |
| * Clitoral Gland |  | Adenoma                           |                              |
| * Heart          |  | Cardiomyopathy                    | Moderate                     |
| * Kidney         |  | Nephropathy                       | Mild                         |
| * Liver          |  | Basophilic Focus                  |                              |
|                  |  | Clear Cell Focus                  |                              |
|                  |  | Hepatodiaphragmatic Nodule        |                              |
|                  | Bile Duct                                  | Hyperplasia                       | Minimal                      |
|                  |  | Leukemia Mononuclear              |                              |
|                  | [ Basophilic Focus TGLs = 7-6 ]            |                                   |                              |
|                  | [ Hepatodiaphragmatic Nodule TGLs = 6-23 ] |                                   |                              |
|                  | [ Leukemia Mononuclear TGLs = 7-6 ]        |                                   |                              |
| * Lung           |  | Infiltration Cellular             | Histiocyte, Minimal          |
| Lymph Node       | Pancreatic                                 | Leukemia Mononuclear              |                              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 385

TMT: 8

SEX: Female

DAY ON TEST: 736

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112350

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLs = 5-7 ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[ Hyperplasia TGLs = 1-8 ]			
* Ovary		Cyst	
[ Cyst TGLs = 2-7 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
	Pars Intermed	Cyst	
[ Carcinoma TGLs = 9-1 ]			
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 3-21,4-22 ]			
* Thyroid Gland	C Cell	Adenoma	

Animal Note: TISSUE ON SLIDE 24 IS MAMMARY GLAND; NO MESENTERY SECTION PRESENT ON SLIDE 24 (TGL 8).



**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 386

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112351

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 387

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112352

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Bone                    | * Brain                     | * Clitoral Gland           | * Esophagus              |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Nose                    | * Ovary                     | * Parathyroid Gland        | * Salivary Glands        |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                  | * Urinary Bladder        |
| * Uterus                  | Vagina                      |                            |                          |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                       |                       |                     |
|--------------------------|---------------------------------------|-----------------------|---------------------|
| * Adrenal Cortex         |                                       | Leukemia Mononuclear  |                     |
|                          | [ Leukemia Mononuclear TGLs = 5-10 ]  |                       |                     |
| * Adrenal Medulla        |                                       | Leukemia Mononuclear  |                     |
| * Bone Marrow            |                                       | Leukemia Mononuclear  |                     |
| * Heart                  |                                       | Cardiomyopathy        | Mild                |
|                          |                                       | Leukemia Mononuclear  |                     |
|                          | [ Leukemia Mononuclear TGLs = 11-12 ] |                       |                     |
| * Intestine Small, Ileum |                                       | Leukemia Mononuclear  |                     |
| * Kidney                 |                                       | Leukemia Mononuclear  |                     |
|                          |                                       | Nephropathy           | Minimal             |
|                          | [ Leukemia Mononuclear TGLs = 7-5 ]   |                       |                     |
| * Liver                  |                                       | Basophilic Focus      |                     |
|                          |                                       | Bile Duct             |                     |
|                          |                                       | Hyperplasia           | Minimal             |
|                          |                                       | Leukemia Mononuclear  |                     |
|                          | [ Leukemia Mononuclear TGLs = 9-6 ]   |                       |                     |
| * Lung                   |                                       | Infiltration Cellular | Histiocyte, Minimal |
|                          |                                       | Leukemia Mononuclear  |                     |
| Lymph Node               |                                       | Leukemia Mononuclear  |                     |
|                          |                                       | Leukemia Mononuclear  |                     |
|                          |                                       | Mediastinal           |                     |
|                          |                                       | Pancreatic            |                     |
|                          | [ Leukemia Mononuclear TGLs = 10-3 ]  |                       |                     |
|                          | [ Leukemia Mononuclear TGLs = 4-25 ]  |                       |                     |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 387

TMT: 8

SEX: Female

DAY ON TEST: 729

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112352

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 6-23,8-23 ]		
* Mammary Gland		Adenoma	
		Fibroadenoma	
		Hyperplasia	Marked
Note: MAMMARY GLAND HYPERPLASIA IS PRESENT ON SLIDES 8 AND 24.			
	[ Adenoma TGLs = 12-24 ]		
	[ Fibroadenoma TGLs = 1-21 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 2-22 ]		
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
		Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Mild
* Skin	SOA	Hyperkeratosis	Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 13-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 388

TMT: 8

SEX: Female

DAY ON TEST: 589

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Lung	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Clitoral Gland		Adenoma	
		Inflammation	Chronic, Moderate
	[ Adenoma TGLs = 1-8 ]		
	[ Inflammation TGLs = 1-8 ]		
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	[ Eosinophilic Focus TGLs = 2-21 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 389

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 306

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112354

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephroblastoma	
	[ Nephroblastoma TGLs = 2-22 ]		
* Liver	Kupffer Cell	Hyperplasia	Mild
		Mineralization	Moderate
	[ Mineralization TGLs = 3-21 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Skin	SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephroblastoma

Animal Note: MEDIASTINAL NODE NOT FOUND.

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 390

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 687

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112355

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Clitoral Gland         |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Heart                  |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Nose                      | * Ovary                  |
| * Salivary Glands          | * Stomach, Forestomach    | * Thymus                    | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

**MISSING**

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

**OBSERVATIONS**

- |                          |                                     |  |                                    |
|--------------------------|-------------------------------------|--|------------------------------------|
| * Adrenal Cortex         |                                     | Accessory Adrenal Cortical Nodule<br>Degeneration<br>Hypertrophy<br>Leukemia Mononuclear | Fatty, Moderate<br>Focal, Moderate |
| * Bone Marrow            |                                     | Leukemia Mononuclear   |                                    |
| * Intestine Large, Cecum |                                     | Edema  | Moderate                           |
| * Kidney                 | Renal Tubule                        | Accumulation, Hyaline Droplet<br>Nephropathy   | Moderate<br>Mild                   |
| * Liver                  | Bile Duct                           | Hyperplasia<br>Leukemia Mononuclear  | Moderate                           |
|                          | Centrilobular                       | Necrosis   | Mild                               |
|                          | [ Hyperplasia TGLs = 5-6 ]          |  |                                    |
|                          | [ Leukemia Mononuclear TGLs = 5-6 ] |  |                                    |
|                          | [ Necrosis TGLs = 5-6 ]             |  |                                    |
| * Lung                   |                                     | Infiltration Cellular<br>Leukemia Mononuclear  | Histiocyte, Minimal                |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear   |                                    |
| * Mammary Gland          |                                     | Hyperplasia  | Marked                             |
|                          | [ Hyperplasia TGLs = 2-8 ]          |  |                                    |
| Mesentery                | Fat                                 | Necrosis   | Moderate                           |
|                          | [ Necrosis TGLs = 4-21 ]            |  |                                    |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

**ANIMAL NUM:** 390

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 687

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112355

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Intermed	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	[ Angiectasis TGLs = 6-1 ]		
	[ Angiectasis TGLs = 6-1 ]		
	[ Leukemia Mononuclear TGLs = 6-1 ]		
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3-6 ]		
* Stomach, Glandular		Leukemia Mononuclear	
		Ulcer	Minimal
	[ Leukemia Mononuclear TGLs = 7-4 ]		
	[ Ulcer TGLs = 7-4 ]		
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 391

**TMT:** 8  
**DOSE:** 90 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 716  
**HISTO:** 112356

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                           |                          |                            |
|--------------------------|---------------------------|--------------------------|----------------------------|
| * Adrenal Medulla        | * Bone                    | * Bone Marrow            | * Clitoral Gland           |
| * Esophagus              | * Eye                     | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Nose                    | * Ovary                  | * Parathyroid Gland        |
| * Salivary Glands        | * Stomach, Glandular      | * Thymus                 | * Trachea                  |
| * Urinary Bladder        | * Uterus                  | Vagina                   |                            |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                             |            |   |                     |
|-----------------------------|------------|---|---------------------|
| * Adrenal Cortex            |            | Accessory Adrenal Cortical Nodule<br>Degeneration | Fatty, Mild         |
| * Brain                     |            | Compression                                       | Mild                |
| [ Compression TGLs = 13-1 ] |            |   |                     |
| * Heart                     |            | Cardiomyopathy                                    | Mild                |
| * Intestine Small, Duodenum | Epithelium | Hyperplasia                                       | Moderate            |
| [ Hyperplasia TGLs = 8-4 ]  |            |   |                     |
| * Kidney                    |            | Nephropathy                                       | Marked              |
| * Liver                     | Hepatocyte | Vacuolization Cytoplasmic                         | Moderate            |
| * Lung                      |            | Infiltration Cellular                             | Histiocyte, Minimal |
| * Lymph Node, Mesenteric    |            | Atrophy   | Moderate            |
|                             |            | Hemorrhage  | Mild                |
| [ Hemorrhage TGLs = 4-5 ]   |            |   |                     |
| * Mammary Gland             |            | Fibroadenoma                                      |                     |
|                             |            | Hyperplasia                                       | Moderate            |
| [ Fibroadenoma TGLs = 1-8 ] |            |   |                     |
| [ Hyperplasia TGLs = 1-8 ]  |            |   |                     |
| Mesentery                   | Fat        | Necrosis  | Moderate            |
| [ Necrosis TGLs = 3-21 ]    |            |   |                     |
| * Pancreas                  |            | Cyst  |                     |
|                             | Acinus     | Cytoplasmic Alteration                            | Moderate            |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 391

TMT: 8

SEX: Female

DAY ON TEST: 716

DOSE: 90 MG/KG

DISP: Natural Death

HISTO: 112356

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [ Carcinoma TGLs = 12-1 ]	Pars Distalis	Carcinoma	
* Skin	SOA Epidermis, SOA	Hyperkeratosis Hyperplasia	Marked Minimal
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Moderate
* Stomach, Forestomach [ Perforation TGLs = 6-4,7-4 ]	Epithelium	Hyperplasia Perforation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma  
CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy  
- Stomach, Forestomach Perforation

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 392

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 693

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112357

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    |
| * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        | * Uterus                   |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                  |  |                           |                              |
|------------------|--|---------------------------|------------------------------|
| * Adrenal Cortex |  | Adenoma                   |                              |
| * Bone Marrow    |  | Leukemia Mononuclear      |                              |
| * Brain          |  | Carcinoma                 | Metastatic (Pituitary Gland) |
|                  |  | Compression               | Moderate                     |
|                  |  | Hemorrhage                | Moderate                     |
|                  | [ Carcinoma TGLs = 8-1 ]                 |                           |                              |
|                  | [ Compression TGLs = 8-1 ]               |                           |                              |
| * Heart          |  | Cardiomyopathy            | Minimal                      |
| * Kidney         |  | Nephropathy               | Moderate                     |
|                  | [ Nephropathy TGLs = 5-5 ]               |                           |                              |
| * Liver          |  | Basophilic Focus          |                              |
|                  |  | Leukemia Mononuclear      |                              |
|                  |  | Vacuolization Cytoplasmic | Mild                         |
|                  | Hepatocyte                               |                           |                              |
|                  | [ Leukemia Mononuclear TGLs = 6-6 ]      |                           |                              |
|                  | [ Vacuolization Cytoplasmic TGLs = 6-6 ] |                           |                              |
| * Lung           |  | Infiltration Cellular     | Histiocyte, Minimal          |
| * Mammary Gland  |  | Hyperplasia               | Moderate                     |
|                  | [ Hyperplasia TGLs = 2-8 ]               |                           |                              |
| Mesentery        |  | Accessory Spleen          |                              |
|                  | Fat                                      | Necrosis                  | Marked                       |
|                  | [ Accessory Spleen TGLs = 3-21 ]         |                           |                              |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 392

TMT: 8

SEX: Female

DAY ON TEST: 693

DOSE: 90 MG/KG

DISP: Moribund Sacrifice

HISTO: 112357

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 4-22 ]

\* Pancreas

Atrophy

Minimal

Cyst

\* Pituitary Gland

Pars Distalis

Carcinoma

[ Carcinoma TGLs = 7-1 ]

\* Skin

Control Epider

Hyperplasia

Minimal

Epidermis, SOA

Hyperplasia

Minimal

\* Spleen

Leukemia Mononuclear

\* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 393

**TMT:** 8  
**DOSE:** 90 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 639  
**HISTO:** 112358

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**AUTO PRECLUDES DIAG.**

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas			

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	
* Heart		Cardiomyopathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule	TGLs = 5-24 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia	TGLs = 6-3 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma	TGLs = 1-21 ]	Hyperplasia	Minimal
[ Hyperplasia	TGLs = 2-8 ]		
Mesentery	Fat	Necrosis	Moderate
[ Necrosis	TGLs = 3-22,4-23 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma	TGLs = 7-1 ]		
* Skin	SOA	Hyperkeratosis	Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Methyl trans-styryl ketone  
**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010  
**Time Report Requested:** 12:57:38  
**First Dose M/F:** 04/05/04 / 04/05/04  
**Lab:** SRI

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**ANIMAL NUM:** 393

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 639

**DOSE:** 90 MG/KG

**DISP:** Natural Death

**HISTO:** 112358

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen	Epidermis, SOA	Hyperplasia	Minimal
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mesentery Fat Necrosis

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 394

**TMT:** 8  
**DOSE:** 90 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 112359

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Ovary                  | * Parathyroid Gland        | * Salivary Glands         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                          |                                     |                      |                      |
|--------------------------|-------------------------------------|----------------------|----------------------|
| * Adrenal Cortex         |                                     | Degeneration         | Fatty, Moderate      |
|                          |                                     | Hypertrophy          | Focal, Moderate      |
| * Bone Marrow            |                                     | Leukemia Mononuclear |                      |
| * Kidney                 |                                     | Nephropathy          | Minimal              |
| * Liver                  |                                     | Basophilic Focus     |                      |
|                          |                                     | Leukemia Mononuclear |                      |
|                          |                                     | Necrosis             | Focal, Minimal       |
|                          | [ Basophilic Focus TGLs = 3-6 ]     |                      |                      |
|                          | [ Leukemia Mononuclear TGLs = 3-6 ] |                      |                      |
|                          | [ Necrosis TGLs = 3-6 ]             |                      |                      |
| * Lymph Node, Mesenteric |                                     | Leukemia Mononuclear |                      |
| * Mammary Gland          |                                     | Hyperplasia          | Mild                 |
|                          | [ Hyperplasia TGLs = 1-8 ]          |                      |                      |
| Mesentery                | Fat                                 | Necrosis             | Moderate             |
|                          | [ Necrosis TGLs = 4-21 ]            |                      |                      |
| * Nose                   |                                     | Foreign Body         |                      |
|                          | Respirat Epith                      | Hyperplasia          | Minimal              |
|                          |                                     | Inflammation         | Chronic, Minimal     |
|                          | Olfactory Epi                       | Metaplasia           | Respiratory, Minimal |
| * Pancreas               |                                     | Atrophy              | Minimal              |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 394

TMT: 8

SEX: Female

DAY ON TEST: 733

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112359

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Intermed	Cyst	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Angiectasis	Moderate
		Hyperplasia	Focal, Moderate
[ Angiectasis TGLs = 5-1 ]			
[ Angiectasis TGLs = 5-1 ]			
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 2-6 ]			

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 395

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 629

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112360

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Marked
	[ Compression TGLs = 5-1 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 4-21 ]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6-1 ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 395

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 629

**DOSE:** 90 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 112360

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Ulcer

Marked

[ Ulcer TGLs = 7-22 ]

Edema

Moderate

\* Stomach, Glandular

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 396

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112361

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLs = 5-1 ]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Moderate
[ Hyperplasia TGLs = 3-3 ]			
[ Pigmentation TGLs = 3-3 ]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[ Fibroadenoma TGLs = 1-21 ]			
[ Hyperplasia TGLs = 2-8 ]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 4-1 ]			
* Skin	SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

\* PROTOCOL REQUIRED TISSUE



TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 397

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112362

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla        | * Bone                      | * Bone Marrow            | * Brain                    |
| * Esophagus              | * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung                   | * Lymph Node, Mandibular    | * Nose                   | * Ovary                    |
| * Parathyroid Gland      | * Salivary Glands           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                 | * Trachea                   | * Urinary Bladder        |                            |

**INSUFFICIENT TISSUE**

- \* Intestine Large, Rectum

**OBSERVATIONS**

- |  |             |  |                                |
|--|-------------|--|--------------------------------|
| * Adrenal Cortex   |             | Degeneration<br>Hyperplasia<br>Carcinoma | Fatty, Moderate<br>Focal, Mild |
| * Clitoral Gland   |             |  |                                |
| Note: THE CARCINOMA HAS EXTENSIVE SQUAMOUS DIFFERENTIATION.<br>[ Carcinoma TGLs = 2-21 ] |             |  |                                |
| * Heart  |             | Cardiomyopathy                           | Minimal                        |
| * Islets, Pancreatic   |             | Adenoma                                  |                                |
| Note: ISLET CELL ADENOMA IS SMALL.   |             |  |                                |
| * Kidney   |             | Nephropathy                              | Mild                           |
| * Liver  |             | Basophilic Focus                         |                                |
| Lymph Node   | Mediastinal | Hemorrhage                               | Mild                           |
|  | Mediastinal | Hyperplasia                              | Lymphoid, Mild                 |
|  | Mediastinal | Pigmentation                             | Moderate                       |
|  |             | [ Hemorrhage TGLs = 4-3 ]                |                                |
|  |             | [ Pigmentation TGLs = 4-3 ]              |                                |
| * Lymph Node, Mesenteric   |             | Hemorrhage<br>Pigmentation               | Minimal<br>Moderate            |
| * Mammary Gland  |             | Hyperplasia                              | Mild                           |
|  |             | [ Hyperplasia TGLs = 1-8 ]               |                                |
| Mesentery  | Fat         | Necrosis                                 | Moderate                       |
|  |             | [ Necrosis TGLs = 3-22 ]                 |                                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 95003 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

ANIMAL NUM: 397

TMT: 8

SEX: Female

DAY ON TEST: 733

DOSE: 90 MG/KG

DISP: Terminal Sacrifice

HISTO: 112362

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 6-1 ]			
* Skin	SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

**ANIMAL NUM:** 398

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112363

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Brain		Compression	Moderate
[ Compression TGLs = 2-1 ]			
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[ Cataract TGLs = 4-44 ]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[ Basophilic Focus TGLs = 1-6 ]			
[ Mixed Cell Focus TGLs = 1-6 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 3-1 ]			
* Skin	SOA	Hyperkeratosis	Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

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**ANIMAL NUM:** 398

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112363

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen	Epidermis, SOA	Hyperplasia	Mild
	Lymph Follic	Hyperplasia	Mild

---

TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Methyl trans-styryl ketone  
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010  
 Time Report Requested: 12:57:38  
 First Dose M/F: 04/05/04 / 04/05/04  
 Lab: SRI

ANIMAL NUM: 399

TMT: 8  
 DOSE: 90 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 112364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                           |                             |                            |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla        | * Bone                    | * Bone Marrow               | * Brain                    |
| * Clitoral Gland         | * Esophagus               | * Harderian Gland           | * Heart                    |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lymph Node, Mesenteric  | * Nose                      | * Ovary                    |
| * Pancreas               | * Parathyroid Gland       | * Salivary Glands           | * Stomach, Forestomach     |
| * Stomach, Glandular     | * Thymus                  | * Thyroid Gland             | * Trachea                  |
| * Urinary Bladder        | * Uterus                  |                             |                            |

MISSING

- |       |                          |                          |                          |
|-------|--------------------------|--------------------------|--------------------------|
| * Eye | * Intestine Large, Colon | * Intestine Small, Ileum | * Lymph Node, Mandibular |
|-------|--------------------------|--------------------------|--------------------------|

OBSERVATIONS

- |                   |  |                                   |                     |
|-------------------|--|-----------------------------------|---------------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule |                     |
| * Kidney          |  | Inflammation                      | Chronic, Mild       |
|                   |  | Nephropathy                       | Moderate            |
| * Liver           |  | Basophilic Focus                  |                     |
|                   |  | Clear Cell Focus                  |                     |
|                   |  | Infiltration Cellular             | Mixed Cell, Mild    |
| * Lung            |  | Alveolar/Bronchiolar Adenoma      |                     |
|                   |  | Infiltration Cellular             | Histiocyte, Minimal |
|                   | [ Alveolar/Bronchiolar Adenoma TGLs = 5-23 ] |                                   |                     |
| * Mammary Gland   |  | Hyperplasia                       | Mild                |
|                   | [ Hyperplasia TGLs = 4-8 ]                   |                                   |                     |
| Mesentery         | Fat  | Necrosis                          | Marked              |
|                   | [ Necrosis TGLs = 1-21 ]                     |                                   |                     |
| * Pituitary Gland | Pars Distalis                                | Adenoma                           |                     |
|                   | [ Adenoma TGLs = 3-1 ]                       |                                   |                     |
| * Skin            | SOA  | Hyperkeratosis                    | Mild                |
|                   | Epidermis                                    | Hyperplasia                       | Marked              |
|                   | Epidermis, SOA                               | Hyperplasia                       | Mild                |
|                   | Control Epider                               | Hyperplasia                       | Minimal             |
|                   |  | Ulcer                             | Marked              |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 399

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112364

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 2-22 ]

[ Ulcer TGLs = 2-22 ]

\* Spleen

Hematopoietic Cell Proliferation

Moderate

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TDMS No. 95003 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

**ANIMAL NUM:** 400

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112365

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Nose                   | * Parathyroid Gland        | * Salivary Glands         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

- \* Lymph Node, Mandibular

**OBSERVATIONS**

- |                   |                              |                                  |                    |
|-------------------|------------------------------|----------------------------------|--------------------|
| * Heart           |                              | Cardiomyopathy                   | Moderate           |
| * Kidney          |                              | Nephropathy                      | Minimal            |
| * Liver           |                              | Basophilic Focus                 |                    |
|                   |                              | Infiltration Cellular            | Mixed Cell, Mild   |
| * Lung            |                              | Inflammation                     | Chronic, Minimal   |
| * Mammary Gland   |                              | Fibroadenoma                     |                    |
|                   |                              | Hyperplasia                      | Moderate           |
|                   | [ Fibroadenoma TGLs = 2-21 ] |                                  |                    |
|                   | [ Hyperplasia TGLs = 1-8 ]   |                                  |                    |
| Mesentery         | Fat                          | Necrosis                         | Moderate           |
|                   | [ Necrosis TGLs = 5-22 ]     |                                  |                    |
| * Ovary           |                              | Cyst                             |                    |
|                   | [ Cyst TGLs = 3-7 ]          |                                  |                    |
| * Pancreas        |                              | Cyst                             |                    |
| * Pituitary Gland | Pars Distalis                | Angiectasis                      | Minimal            |
|                   | Pars Distalis                | Cyst                             |                    |
| * Skin            | SOA                          | Hyperkeratosis                   | Mild               |
|                   | Epidermis, SOA               | Hyperplasia                      | Minimal            |
| * Spleen          |                              | Hematopoietic Cell Proliferation | Minimal            |
|                   |                              | Infiltration Cellular            | Mixed Cell, Marked |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

---

**ANIMAL NUM:** 400

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 90 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 112365

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: "INFILTRATION CELLULAR, MIXED CELL" ACTUALLY CONSISTS OF LYMPHOHISTIOCYTIC HYPERPLASIA.

[ Infiltration Cellular TGLs = 6-23,7-24,8-6 ]

\* Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLs = 4-7 ]

---

\*\*\* END OF REPORT \*\*\*