

**Experiment Number:** 97003-05

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane

**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 15:49:36

**First Dose M/F:** NA / NA

**Lab:** MBA

<b>C Number:</b>	C97003C
<b>Lock Date:</b>	10/27/2000
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:36

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	3	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	1	0	
		1	2	3	4	5	6	7	8	9	0	

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	M	+	+	+	+	M	+	+	8

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:36

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	1	1	
		1	2	3	4	5	6	7	8	9	0	
Pituitary Gland		+	+	+	M	+	+	+	+	+	+	9
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	10
<b>General Body System</b>												
NONE												
<b>Genital System</b>												
Epididymis		+	+	+	+	+	+	+	+	+	+	10
Preputial Gland		+	+	+	+	+	+	+	+	+	+	10
Prostate		+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	10
Testes		+	+	+	+	+	+	+	+	+	+	10
<b>Hematopoietic System</b>												
Bone Marrow		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular		M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>												
Mammary Gland		M	+	M	M	M	+	+	+	M	M	4
Skin		+	I	+	+	+	+	+	+	+	+	9
<b>Musculoskeletal System</b>												

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

Experiment Number: 97003-05  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: 1,2-Dibromo-2,4-dicyanobutane  
 CAS Number: 35691-65-7

Date Report Requested: 10/16/2014  
 Time Report Requested: 15:49:36  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male  
 VEHICLE CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
Bone	+	+	+	+	+	+	+	+	+	+	10
<b>Nervous System</b>											
Brain	+	+	+	+	+	+	+	+	+	+	10
<b>Respiratory System</b>											
Lung	+	+	+	+	+	+	+	+	+	+	10
Alveolar/Bronchiolar Adenoma									X		1
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
<b>Special Senses System</b>											
Eye	+	+	+	+	+	+	+	+	+	+	10
<b>Urinary System</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10
<b>SYSTEMIC LESIONS</b>											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

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Experiment Number: 97003-05

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Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:36

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
0.2 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin + + + + + + + + + +

10

Musculoskeletal System

NONE

Nervous System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

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Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:36

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
0.2 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

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Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:36

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
0.6 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	3
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin + + + + + + + + + +

10

Musculoskeletal System

NONE

Nervous System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

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CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
0.6 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	3	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

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Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
2.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin + + + + + + + + + +

10

Musculoskeletal System

NONE

Nervous System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

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Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
2.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

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Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
6.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	5	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Liver + + 2

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin + + + + + + + + + + 10

Skin, Control + 1

Musculoskeletal System

NONE

Nervous System

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
6.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	5	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

NONE  
Respiratory System

NONE  
Special Senses System

Eye + 1  
Urinary System

NONE  
SYSTEMIC LESIONS

Multiple Organ + + + + + + + + + + 10

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
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Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
18.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	M	+	M	8
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	9

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
18.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
<b>General Body System</b>											
NONE											
<b>Genital System</b>											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	M	+	M	+	+	+	+	+	8
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
<b>Hematopoietic System</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node				+							1
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>											
Mammary Gland	M	+	M	+	M	+	M	+	M	M	4
Skin	+	+	+	+	+	+	+	+	+	+	10
Skin, Control						+		+	+	+	4

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Male  
18.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS
Skin, Control						+		+	+	+	4
<b>Musculoskeletal System</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10
<b>Nervous System</b>											
Brain	+	+	+	+	+	+	+	+	+	+	10
<b>Respiratory System</b>											
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
<b>Special Senses System</b>											
Eye	+	+	+	+	+	+	+	+	+	+	10
<b>Urinary System</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10
<b>SYSTEMIC LESIONS</b>											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:37  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Male**  
**CONTROL SPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically



Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:37

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Male  
CONTROL SPECIAL**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:37

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Male**  
**0.2MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05  
Test Type: 90-DAY  
Route: SKIN APPLICATION  
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: 1,2-Dibromo-2,4-dicyanobutane  
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014  
Time Report Requested: 15:49:37  
First Dose M/F: NA / NA  
Lab: MBA

DAY ON TEST

F 344/N Rat Male  
0.2MG/KGSPECIAL

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:37  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Male**  
**0.6MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:37  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Male**  
**0.6MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

---

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:37

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Male**  
**2.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:37  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Male**  
**2.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

---

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:37

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Male**  
**6.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically



**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:37  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Male**  
**6.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:37  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Male**  
**18MG/KG SPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

Experiment Number: 97003-05  
Test Type: 90-DAY  
Route: SKIN APPLICATION  
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: 1,2-Dibromo-2,4-dicyanobutane  
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014  
Time Report Requested: 15:49:37  
First Dose M/F: NA / NA  
Lab: MBA

DAY ON TEST

F 344/N Rat Male  
18MG/KG SPECIAL

ANIMAL ID

\*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

0

\*\*\*END OF MALE DATA\*\*\*

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	3	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		6	6	6	6	6	6	6	6	6	7	
		1	2	3	4	5	6	7	8	9	0	

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	A	+	+	+	+	9
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	A	+	+	+	+	9
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	A	+	+	+	+	9
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	+	+	9
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	7
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Clitoral Gland	M	+	+	+	+	+	+	+	M	+	8
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	M	M	+	M	M	M	M	M	M	M	1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
<b>F 344/N Rat Female</b>	9	9	9	9	9	9	9	9	9	9	
<b>VEHICLE CONTROL</b>	3	3	3	3	3	3	3	3	3	3	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	7	
	1	2	3	4	5	6	7	8	9	0	

**Nervous System**

Brain + + + + + + + + + + 10

**Respiratory System**

Lung + + + + + + + + + + 10

Nose + + + + + + + + + + 10

Trachea + + + + + + + + + + 10

**Special Senses System**

Eye + + + + + + + + + + 10

**Urinary System**

Kidney + + + + + + + + + + 10

Urinary Bladder + + + + + + + + + + 10

**SYSTEMIC LESIONS**

Multiple Organ + + + + + + + + + + 10

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
0.2 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	8	8
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Mesentery + 1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node + + 2

Integumentary System

Skin + + + + + + + + + + 10

Musculoskeletal System

NONE

Nervous System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
0.2 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically



Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
0.6 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver + + 2

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin + + + + + + + + + + 10

Musculoskeletal System

NONE

Nervous System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
0.6 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:37

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
2.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	1	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	1
Intestine Large, Cecum	A	0
Intestine Large, Colon	A	0
Intestine Large, Rectum	A	0
Intestine Small, Duodenum	A	0
Intestine Small, Ileum	A	0
Intestine Small, Jejunum	A	0
Liver	+	1
Pancreas	A	0
Salivary Glands	A	0
Stomach, Forestomach	+	1
Stomach, Glandular	+	1

Cardiovascular System

Blood Vessel	+	1
Heart	+	1

Endocrine System

Adrenal Cortex	+	1
Adrenal Medulla	+	1
Islets, Pancreatic	A	0
Parathyroid Gland	+	1

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:38

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
2.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	1	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1	0
	9	9	9	9	9	9	9	9	9	0	0
	1	2	3	4	5	6	7	8	9	0	0
	<b>*TOTALS</b>										

Pituitary Gland	A	0
Thyroid Gland	A	0

**General Body System**

NONE

**Genital System**

Clitoral Gland	A	0
Ovary	A	0
Uterus	A	0

**Hematopoietic System**

Bone Marrow	A	0
Lymph Node	+	1
Lymph Node, Mandibular	M	0
Lymph Node, Mesenteric	A	0
Spleen	A	0
Thymus	A	0

**Integumentary System**

Mammary Gland	+	1
Skin	+ + + + + + + + + +	10

**Musculoskeletal System**

Bone	+	1
------	---	---

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:38

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
2.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	1	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

**Nervous System**

Brain + 1

**Respiratory System**

Lung + 1

Nose + 1

Trachea A 0

**Special Senses System**

Eye A 0

**Urinary System**

Kidney + 1

Urinary Bladder + 1

**SYSTEMIC LESIONS**

Multiple Organ + + + + + + + + + + 10

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:38

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
6.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Mesentery + 1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary + 1

Hematopoietic System

Lymph Node + 1

Integumentary System

Skin + + + + + + + + + + 10

Musculoskeletal System

NONE

Nervous System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:38

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
6.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:38

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
18.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	M	+	+	+	+	+	+	+	9
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	M	+	+	M	+	+	+	8

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue



Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:38

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
18.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0	

\*TOTALS

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	M	+	+	+	9

General Body System

NONE

Genital System

Clitoral Gland	+	+	M	M	+	+	+	+	M	+	7
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	M	M	M	M	M	M	+	M	+	M	2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
Skin, Control		+									1

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 97003-05

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

Time Report Requested: 15:49:38

Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat Female  
18.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

**Nervous System**

Brain + + + + + + + + + + 10

**Respiratory System**

Lung + + + + + + + + + + 10

Nose + + + + + + + + + + 10

Trachea + + + + + + + + + + 10

**Special Senses System**

Eye + + + + + + + + + + 10

**Urinary System**

Kidney + + + + + + + + + + 10

Urinary Bladder + + + + + + + + + + 10

**SYSTEMIC LESIONS**

Multiple Organ + + + + + + + + + + 10

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**CONTROL SPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**CONTROL SPECIAL**

ANIMAL ID

\*TOTALS

---

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**0.2MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:38

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Female  
0.2MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ 0

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:38

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Female  
0.6MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:38

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Female  
0.6MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically



**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**2.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

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Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:49:38

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Female  
2.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**6.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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+ ..Tissue examined microscopically  
X ..Lesion present  
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M ..Missing tissue  
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**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
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**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**6.0MG/KGSPECIAL**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

M ..Missing tissue  
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**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**18MG/KG SPECIAL**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue

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**Experiment Number:** 97003-05  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 1,2-Dibromo-2,4-dicyanobutane  
**CAS Number:** 35691-65-7

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 15:49:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**18MG/KG SPECIAL**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

**\*\* END OF REPORT \*\***

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