

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

C Number:	C55867A
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9264

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Uterus		

MISSING

Urinary Bladder

OBSERVATIONS

Clitoral Gland Note: INFLAMMATION TGLs = 2-5.1		Inflammation	Chronic Active, Moderate
Intestine Large	Colon	Parasite Metazoan	Mild
Islets, Pancreatic		Hyperplasia	Focal, Mild
Kidney	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Single, Mild
		Inflammation	Chronic, Multifocal, Minimal
Lymph Node	Mesenteric	Edema	Minimal
Pituitary Gland Note: ADENOMA TGLs = 1-1	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Trachea		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9268

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Ovary	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Urinary Bladder	Uterus

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Clitoral Gland		Inflammation	Chronic, Marked
Note: INFLAMMATION	TGLs = 2-5.1+15		
Heart		Cardiomyopathy	Mild
Kidney	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Mild
		Fatty Change	Multifocal, Mild
		Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Depletion Lymphoid	Mild
Mammary Gland		Fibroadenoma	
		Galactocele	Mild
Note: REGIONAL LYMPH NODE NOT IN PLANE OF SECTION FOR TGL 2.			
Note: FIBROADENOMA	TGLs = 2-15		
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
Trachea		Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9276

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Hyperplasia	Reticulum Cell, Multifocal, Moderate
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Mild
		Inflammation	Chronic, Multifocal, Mild
Lung	Interstitialium	Inflammation	Subacute, Multifocal, Minimal
Lymph Node	Mesenteric	Edema	Mild
Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
Note: FIBROADENOMA TGLs = 1-15			
Note: REGIONAL LYMPH NODE NORMAL FOR TGL 1.			
Nose	Turbinates	Inflammation	Chronic Active, Moderate
Note: MYCOTIC SPORES AND HYPHAE PRESENT IN EXUDATE, SLIDE 14.3.			
Ovary	Bilateral	Infiltration Cellular	Lymphocyte, Diffuse, Moderate
Pituitary Gland	Pars Distalis	Angiectasis	Marked
[Angiectasis TGLs = 3-1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus	Lumen	Dilatation	Moderate
Note: REGIONAL LYMPH NODE NORMAL FOR TGL 2.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9279

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Moderate
Bone Marrow		Hyperplasia	Reticulum Cell, Multifocal, Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Focal, Mild
Kidney	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Single, Minimal
		Inflammation	Chronic, Multifocal, Mild
Lung	Interstitial	Inflammation	Subacute, Multifocal, Minimal
Lymph Node			
Note: SEE MAMMARY GLAND FOR TGL 1.			
Mammary Gland		Adenoma	
		Galactocele	Moderate
Note: ADENOMA TGLs = 1-15.1			
Note: ADENOMA CORRESPONDS TO LESION DESCRIBED MACROSCOPICALLY			
Note: AS ENLARGED RIGHT INGUINAL LYMPH NODE.			
Nose	Turbinates	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9279

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9290

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

MISSING

Intestine Large - Rectum Thymus

OBSERVATIONS

Bone Marrow		Hyperplasia	Reticulum Cell, Multifocal, Minimal
Heart		Cardiomyopathy	Mild
Kidney	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Mild
Lung	Interstitial	Inflammation	Subacute, Multifocal, Minimal
Lymph Node			
Note: SEE MAMMARY GLAND FOR TGL 2.			
Mammary Gland		Fibroadenoma	
		Galactocele	Mild
Note: REGIONAL L.N., NORMAL FOR TGL 1, NOT EXAMINED FOR TGL 2.			
Note: LESION 2 WAS DESCRIBED AS ENLARGED INGUINAL L.N.			
Note: FIBROADENOMA TGLs = 1-15,2-15			
Nose	Turbinates	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Acanthosis	Mild
Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA TGLs = 3-2			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9307

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Ovary	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Adrenal Gland - Medulla

INSUFFICIENT TISSUE

Intestine Large - Rectum

OBSERVATIONS

Bone Marrow		Hyperplasia	Reticulum Cell, Focal, Minimal
		Hyperplasia	Megakaryocyte, Mild
Clitoral Gland		Inflammation	Chronic, Mild
Eye	Antr Chamber, Left	Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 5-15		
Heart		Cardiomyopathy	Moderate
Kidney	Papilla	Mineralization	Mild
	Bilateral	Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 4-12		
Liver		Basophilic Focus	Multiple, Mild
		Leukemia Mononuclear	
Note: NECROSIS	TGLs = 3-11	Necrosis	Focal, Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Nose	Turbinate	Inflammation	Subacute, Mild
Pancreas		Inflammation	Chronic, Mild
Skin	Tail	Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 1-15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
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Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9307

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-12

Thymus

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Multifocal, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9308

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone Marrow	Brain
Clitoral Gland	Esophagus	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
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Peripheral Nerve

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 1-1	Medulla	Pheochromocytoma Benign	
Bone Note: ALSO SEE ORGAN NOSE, SLIDES 14.1+14.2+14.3.	Femur	Osteopetrosis	Mild
Kidney	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Mild
		Inflammation	Chronic, Multifocal, Minimal
Mammary Gland		Galactocele	Mild
Nose Note: ALSO SEE ORGAN BONE SLIDE 14. Note: HYPERTROPHY = OSTEOPETROSIS OF NASAL BONES.		Hypertrophy	Moderate
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Acanthosis	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9309

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Urinary Bladder	Uterus

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Inflammation	Acute, Mild
Kidney	Papilla	Mineralization	Minimal
	Bilateral	Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple, Mild
Lung	Interstitium	Inflammation	Subacute, Multifocal, Mild
Lymph Node			
Note: REGIONAL L.N.: NOT EXAMINED FOR TGL 1. SIZE AND LOCATION			
Note: OF LESION OBSCURED L.N.			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-15			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	Follicular Cel	Adenoma	
Trachea		Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9310

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Bone	Bone Marrow
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OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Clitoral Gland		Inflammation	Chronic, Minimal
Eye	Left	Cataract	Moderate
	Left, Retina	Degeneration	Moderate
Note: CATARACT	TGLs = 2-15		
Heart		Cardiomyopathy	Mild
Kidney	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Mild
		Inflammation	Chronic, Multifocal, Minimal
Lymph Node	Mesenteric	Edema	Mild
Nose	Turbinate	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Note: EARLY STAGE LEUKEMIA.			
Uterus	Lumen	Dilatation	Moderate
Note: DILATATION	TGLs = 1-5+15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9313

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Stomach - Glandular
Thymus	Urinary Bladder	Uterus	Zymbal's Gland

INSUFFICIENT TISSUE

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Bone	Femur	Osteopetrosis	Mild
Note: ALSO SEE ORGAN NOSE, SLIDES 14.1+14.2+14.3.			
Clitoral Gland		Adenoma	
		Inflammation	Chronic, Moderate
Note: ADENOMA TGLs = 2-5.1+15			
Heart		Cardiomyopathy	Mild
Kidney	Bilateral	Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple, Mild
		Inflammation	Chronic, Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-11			
Lymph Node			
Note: REGIONAL L.N.: NORMAL FOR TGL 2.			
Mammary Gland		Galactocele	Mild
	Acinus	Hyperplasia	Mild
Nose		Hypertrophy	Mild
	Nasolacrim Dct	Inflammation	Subacute, Mild
Note: HYPERTROPHY=OSTEOPETROSIS OF NASAL BONES.			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9313	TRT#: 5 DOSE: VEHICLE CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Moderate
Note: EARLY STAGE LEUKEMIA.			
Stomach	Forestomach	Acanthosis	Mild
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Minimal
Trachea		Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9315

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal GI			
Note: NORMAL ACCESSORY CORTICAL NODULE PRESENT.			
Bone Marrow		Hyperplasia	Reticulum Cell, Multifocal, Moderate
Clitoral Gland		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney	Papilla	Mineralization	Mild
	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Moderate
		Inflammation	Chronic, Multifocal, Mild
Lung	Interstitialium	Inflammation	Subacute, Focal, Minimal
Lymph Node	Mesenteric	Hemorrhage	Moderate
Note: REGIONAL L.N.: NORMAL FOR TGL 1 AND 2.			
Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
Note: FIBROADENOMA TGLs = 1-15			
Nose	Turbinate	Inflammation	Chronic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
Salivary Glands	Submandibul GI	Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Polyp	
Note: POLYP TGLs = 2-15			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9323

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	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
Peripheral Nerve	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Bone Marrow		Hyperplasia	Reticulum Cell, Focal, Minimal
Clitoral Gland		Inflammation	Chronic, Marked
Note: INFLAMMATION	TGLs = 1-5.1+15		
Heart		Cardiomyopathy	Mild
Kidney	Epithelium, Pelvis	Hyperplasia	Moderate
	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Mild
		Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Edema	Mild
Mammary Gland		Galactocele	Mild
Nose	Turbinate	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:52
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9338

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	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	Peripheral Nerve	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Papilla Bilateral	Mineralization Nephropathy	Mild Chronic, Mild
Liver	Bile Duct	Basophilic Focus Hyperplasia	Multiple, Mild Multifocal, Mild
Lung		Hemorrhage	Multifocal, Mild
Note: HEMORRHAGE TGLs = 2-4			
Lymph Node			
Note: REGIONAL L.N. : NOT EXAMINED FOR TGL 1.			
Mammary Gland		Fibroadenoma Galactocele	Mild
	Acinus	Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 1-15			
Nose	Turbinates	Inflammation	Chronic, Mild
Pancreas		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Adenoma	
Trachea		Inflammation	Subacute, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9342

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Peripheral Nerve	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Blood Vessel	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Focal, Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Brain		Compression	Focal, Mild
Note: COMPRESSION FROM PITUITARY ADENOMA.			
Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Mild
	Bilateral	Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple, Mild
		Inflammation	Chronic, Multifocal, Mild
Lung	Interstitialium	Inflammation	Subacute, Focal, Minimal
Lymph Node	Mesenteric	Edema	Mild
Note: REGIONAL L.N. : NOT EXAMINED FOR TGL 1.			
Mammary Gland		Adenocarcinoma	
		Galactocele	Marked
Note: ADENOCARC TGLs = 1-15			
Nose	Turbinate	Inflammation	Chronic, Mild
Note: FOREIGN MATERIAL PRESENT IN LUMENAL EXUDATE.			
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-1			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:49:52

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9342

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE