

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
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	11/04/1988

Experiment Number: 05032-02
Test Type: CHRONIC
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Gallbladder	Mammary Gland	Pituitary Gland	
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Mild
Nose	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Focal, Minimal
		Abscess	Multifocal, Marked
Preputial Gland			
Note: ABSCESS	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Stomach	Forestomach	Abscess	Focal, Mild
	Forestomach	Squamous Cell Papilloma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 2	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Moribund	DAY ON TEST: 466 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
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	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Kidney	Bilateral, Renal Tubule	Concretion	Multifocal, Mild
Spleen		Pigmentation	Diffuse, Minimal
Urinary Bladder		Dilatation	Moderate

Note: DILATATION TGLs = 4-5

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 3	TRT#: 3	SEX: Male	DAY ON TEST: 130
	DOSE: 750 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
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
Pituitary Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Brain	Olfactory Lobe	Mineralization	Focal, Mild
Thymus		Atrophy	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

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Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 4	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Liver	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder			

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Moderate
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi Glands	Atrophy	Mild
Salivary Glands		Hyperplasia	Minimal
Thyroid Gland		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 5	TRT#: 3 DOSE: 750 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Spleen	Stomach - Glandular	Thymus
Trachea			

MISSING

Intestine Large - Rectum	Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Epididymis		Vacuolization Cytoplasmic	Diffuse, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
		Hyperplasia	Moderate
Preputial Gland		Abscess	Focal, Marked
Note: ABSCESS TGLs = 1-15			
Stomach	Forestomach	Acanthosis	Focal, Minimal
	Forestomach	Inflammation	Chronic, Focal, Mild
Note: ACANTHOSIS TGLs = 1-6			
Testes	Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Mild
Thyroid Gland		Ultimobranhial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 6 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 730
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Intestine Small	Jejunum, Peyers Patch	Hyperplasia	Lymphoid, Focal, Mild
Kidney		Inflammation	Chronic, Multifocal, Mild
Lung		Hemorrhage	Focal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Foreign Body	Minimal
		Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Testes	Seminif Tub	Degeneration	Focal, Mild
	Seminif Tub	Mineralization	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 7 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 729
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	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	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis	Bilateral	Vacuolization Cytoplasmic	Diffuse, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Necrosis	Coagulative, Multifocal, Moderate
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Foreign Body	Minimal
		Hyperplasia	Moderate
Skin		Acanthosis	Multifocal, Mild
		Inflammation	Chronic, Diffuse, Mild
Note: ACANTHOSIS TGLs = 1-15			
Testes	Bilateral, Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9	TRT#: 3 DOSE: 750 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Marked
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 10

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral, Renal Tubule	Degeneration	Multifocal, Mild
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 1-15		
Lung		Alveolar/Bronchiolar Adenoma	
		Hemorrhage	Focal, Minimal
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Mild
Note: REGIONAL TO HEPATOCLR CARC IS NORMAL			
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Minimal
Pancreas		Inflammation	Chronic, Focal, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Stomach	Forestomach	Acanthosis	Focal, Moderate
Note: ACANTHOSIS	TGLs = 2-6		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta, Media, Mesent Artery	Hypertrophy	Multifocal, Moderate
	Adventitia, Aorta, Mesent Artery	Inflammation	Chronic, Multifocal, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Heart	Artery	Inflammation	Chronic, Diffuse, Moderate
Kidney	Bilateral, Renal Tubule	Casts Protein	Multifocal, Minimal
	Bilateral, Renal Tubule	Degeneration	Multifocal, Moderate
	Artery, Bilateral	Inflammation	Chronic, Multifocal, Moderate
	Bilateral, Renal Tubule	Regeneration	Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 3-11		
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Mild
	Mesenteric	Infiltration Cellular	Plasma Cell, Diffuse, Mild
Note: INFILTRAT CELL	TGLs = 4-15.1		
Note: REGIONAL, PANCREATIC, TO HEPATOCLR CARC.			
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
Preputial Gland		Abscess	Focal, Marked
Note: ABSCESS	TGLs = 2-15		
Skin	Prepuce	Cyst Epithelial Inclusion	Focal, Moderate
		Inflammation	Acute, Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 1-7

Spleen

Hematopoietic Cell Proliferation

Diffuse, Moderate

Stomach

Adventitia, Artery, Glandular

Inflammation

Chronic, Multifocal, Moderate

Thymus

Atrophy

Diffuse, Moderate

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 15	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Focal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
		Hyperplasia	Moderate
Preputial Gland		Inflammation	Chronic, Diffuse, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 17 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 731
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Peripheral Nerve	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Mild
Nose	Turbinate	Inflammation	Chronic, Multifocal, Mild
Skin	Hair Follicle	Inflammation	Chronic, Multifocal, Minimal
Note: INFLAMMATION TGLs = 1-7			
Trachea		Inflammation	Chronic, Diffuse, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 18

TRT#: 2

SEX: Male

DAY ON TEST: 552

DOSE: 375 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Gallbladder	Intestine Large - Rectum	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Liver		Lymphoma Malignant Histiocytic	
Note: CAUSE OF DEATH.			
Note: LYMPH MAL HIST TGLs = 2-11			
Lung		Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST TGLs = 4-4			
Lymph Node	Mandibular, Mesenteric	Lymphoma Malignant Histiocytic	
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Moderate Mild
Parathyroid Gland		Cyst	Single, Mild
Skin	Subcut Tiss	Edema	Diffuse, Minimal
Note: EDEMA TGLs = 1-7			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Thymus		Atrophy	Diffuse, Marked

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Peripheral Nerve	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Inflammation	Chronic, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Moderate
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Mild
Pancreas		Inflammation	Chronic, Multifocal, Minimal
Skin	Adventitia, Artery, Subcut Tiss	Inflammation	Chronic, Focal, Moderate
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild
Trachea		Inflammation	Chronic, Diffuse, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 20	TRT#: 2	SEX: Male	DAY ON TEST: 730
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
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	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:27
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 21	TRT#: 2 DOSE: 375 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Spleen
Stomach - Glandular	Testes	Thyroid Gland	Urinary Bladder

MISSING

Intestine Large - Cecum	Mammary Gland	Thymus	
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Alveolar Epith	Hypertrophy	Focal, Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Pleura	Inflammation	Chronic, Focal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Mild
Pancreas		Inflammation	Chronic, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach	Abscess	Multifocal, Mild
	Forestomach	Acanthosis	Multifocal, Mild
Note: ABSCESS	TGLs = 1-6		
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:27
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 22

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lymph Node - Mesenteric	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Gallbladder	Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
Thymus			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Vacuolization Cytoplasmic	Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinate	Hyperplasia	Moderate
Skin	Hair Follicle	Inflammation	Acute, Multifocal, Minimal
	Subcut Tiss	Atrophy	Focal, Minimal
	Back	Sarcoma	
		Ulcer	Focal, Marked
Note: ULCER	TGLs = 2-15		
Note: ATROPHY	TGLs = 1-15		
Note: SARCOMA	TGLs = 2-15		
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 23	TRT#: 2	SEX: Male	DAY ON TEST: 729
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland	Thymus	
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Cecum, Lymphoid Nodul	Hyperplasia	Lymphoid, Focal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Minimal
	Glands	Hyperplasia	Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Minimal
Testes	Bilateral, Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Mild
Trachea		Inflammation	Chronic, Diffuse, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 24	TRT#: 3 DOSE: 750 MG/KG	SEX: Male DISP: Accident	DAY ON TEST: 3 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Gallbladder
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	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thyroid Gland
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OBSERVATIONS

Esophagus Note: CAUSE OF DEATH Note: HEMORRHAGE TGLs = 1 - 2	Periesoph Tiss	Hemorrhage	Focal, Marked
Heart Note: CONTRIBUTORY TO DEATH	Myocardium, Ventricl Lft	Hemorrhage	Focal, Moderate
Lung Note: CONTRIBUTORY TO DEATH Note: FOREIGN BODY TGLs = 2 - 4	Alveolus	Foreign Body Hemorrhage	Multifocal, Moderate Multifocal, Marked
Nose	Turbinate	Foreign Body Hemorrhage	Moderate Diffuse, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 26 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 731
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Minimal
Nose	Turbinate	Inflammation	Chronic, Focal, Mild
Trachea		Inflammation	Chronic, Diffuse, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 27 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 730
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Prostate	Salivary Glands	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis			
Note: ONE OF A PAIR PRESENT.			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Focal, Minimal
	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose		Foreign Body	Minimal
Pancreas		Atrophy	Focal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Moderate
Note: HYPERPLASIA TGLs = 1-12			
Stomach	Forestomach	Cyst Epithelial Inclusion	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 29

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Focal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Kidney	Renal Tubule	Degeneration	Focal, Moderate
	Bilateral	Inflammation	Chronic, Multifocal, Moderate
	Renal Tubule	Regeneration	Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin	Subcut Tiss	Neurofibrosarcoma	

Note: NEUROFIBROSARC TGLs = 1-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Pancreas	Peripheral Nerve	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Medulla	Hyperplasia Pheochromocytoma Benign	Multifocal, Minimal
Note: PHEOCHROM BGN TGLs = 2-1.1			
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Atypia Cellular	Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Moderate
Nose		Foreign Body	Minimal
Preputial Gland		Abscess	Focal, Marked
Note: ABSCESS TGLs = 1-15			
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 33 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 731
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: INFILTRAT CELL TGLs = 2-4			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Chronic, Multifocal, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Skin	Hair Follicle	Atrophy	Focal, Minimal
Note: ATROPHY TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
		Hyperplasia	Lymphoid, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 34 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 729
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Focal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
	Peribronchial	Hyperplasia	Marked
Nose	Olfactory Epi	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Glands	Atrophy	Marked
	Turbinate	Hyperplasia	Moderate
Salivary Glands		Inflammation	Acute, Multifocal, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 35

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Parathyroid Gland
Pituitary Gland	Prostate	Spleen	Stomach - Glandular
Testes	Thymus	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Minimal Minimal
Pancreas		Atrophy	Focal, Minimal
Preputial Gland	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 1-15		
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Skin		Inflammation	Chronic, Focal, Mild
Stomach	Forestomach Forestomach	Abscess Acanthosis	Focal, Mild Focal, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 37

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Renal Tubule	Degeneration	Focal, Mild
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung		Alveolar/Bronchiolar Carcinoma	
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: [ALV BRON CARC] TGLs = 2-4			
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Moderate
Preputial Gland		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 1-15			
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 38	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 39

TRT#: 1

SEX: Male

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	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney		Hydronephrosis	Mild
		Inflammation	Chronic, Multifocal, Moderate
Note: HYDRONEPHROSIS TGLs = 4-12			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Minimal
	Inguinal	Hyperplasia	Lymphoid, Diffuse, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Mild
Note: HYPERPLASIA TGLs = 1-15			
Spleen		Hyperplasia	Lymphoid, Diffuse, Minimal
Trachea		Inflammation	Chronic, Focal, Minimal
Ureter		Dilatation	Minimal
Note: DILATATION TGLs = 3-15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 40

TRT#: 1

SEX: Male

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	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Pancreas	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Moderate
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Prostate		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin		Acanthosis	Focal, Moderate
		Hyperkeratosis	Focal, Mild
		Inflammation	Chronic, Diffuse, Mild
Note: ACANTHOSIS	TGLs = 2-15		
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 41

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mesenteric	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Cortex	Hyperplasia Hypertrophy	Multifocal, Minimal Focal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lymph Node			
Note: REGIONAL TO HEPATOCLR CARC IS NORMAL			
Nose	Olfactory Epi Glands	Atrophy Foreign Body Hyperplasia	Mild Minimal Mild
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Moderate
Note: HYPERPLASIA TGLs = 2-12			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 42

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Skin	Spleen	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Renal Tubule	Degeneration	Focal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN	TGLs = 1-15		
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Moderate
Note: REGION TO HEPATCLR ADEN IS MISSING			
Nose	Olfactory Epi	Atrophy	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
Pancreas		Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Stomach	Forestomach	Acanthosis	Focal, Mild
Note: ACANTHOSIS	TGLs = 2-15		
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 43 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 707
DOSE: 750 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Pancreas	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland	Pituitary Gland	Thymus
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland Note: ONE OF A PAIR PRESENT.	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Bone Marrow	Erythroid Cell	Hyperplasia	Diffuse, Minimal
Esophagus	Periesoph Tiss	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Heart	Epicardium	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Kidney Note: ALV BRON CARC TGLs = 1-15		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Lung Note: CAUSE OF DEATH. Note: ALV BRON CARC TGLs = 2-4		Alveolar/Bronchiolar Carcinoma	
Lymph Node Note: ALV BRON CARC TGLs = 4-15	Mediastinal	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Hemorrhage	Diffuse, Moderate
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 43

TRT#: 3

SEX: Male

DAY ON TEST: 707

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 44 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 730
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
	Bilateral, Renal Tubule	Regeneration	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose		Foreign Body	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:28

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 45

TRT#: 3

SEX: Male

DAY ON TEST: 401

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Bone Marrow
Gallbladder
Intestine Large - Rectum
Kidney
Pancreas
Skin
Thymus

Adrenal Gland - Medulla
Brain
Heart
Intestine Small - Ileum
Liver
Pituitary Gland
Stomach - Forestomach
Thyroid Gland

Blood Vessel
Epididymis
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Prostate
Stomach - Glandular
Trachea

Bone
Esophagus
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Salivary Glands
Testes
Urinary Bladder

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

OBSERVATIONS

Lung
Nose

Peribronchial
Olfactory Epi
Glands
Turbinate

Infiltration Cellular
Atrophy
Hyperplasia
Inflammation
Hyperplasia

Lymphocyte, Multifocal, Minimal
Moderate
Moderate
Acute, Multifocal, Minimal
Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 46

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Prostate
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Alveolar Epith	Hypertrophy	Focal, Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 48

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland	Prostate
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 1-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Minimal
Note: REGIONAL TO HEPATOCLR ADEN IS NORMAL			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Minimal
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 49

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Spleen	Stomach - Glandular	Testes
Thymus	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
		Foreign Body	Moderate
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach	Acanthosis	Multifocal, Moderate
	Forestomach	Inflammation	Acute, Multifocal, Mild
Note: ACANTHOSIS TGLs = 1-6			
Thyroid Gland	Follicular Cel	Adenoma	
		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 50	TRT#: 2	SEX: Male	DAY ON TEST: 729
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Gallbladder		Inflammation	Acute, Diffuse, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
	Bilateral, Renal Tubule	Regeneration	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Preputial Gland	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 1-15		
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 53	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	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	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Urinary Bladder
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinate	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
		Inflammation	Acute, Focal, Minimal
Pancreas		Atrophy	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Intestine Large - Rectum	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Inflammation	Chronic, Focal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Moderate
Note: HYPERPLASIA	TGLs = 1-12		
Stomach	Glandular	Inflammation	Acute, Focal, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Hemorrhage	Focal, Mild
		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: HEMORRHAGE TGLs = 1-15			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Moderate
Spleen		Hyperplasia	Lymphoid, Diffuse, Moderate
Note: HYPERPLASIA TGLs = 2-15			
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 57

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Bilateral, Cortex	Hyperplasia Hypertrophy	Multifocal, Mild Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Moderate
Nose	Olfactory Epi Turbinates	Atrophy Exudate	Moderate Mild
	Glands	Foreign Body Hyperplasia	Mild Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild
Note: HYPERPLASIA	TGLs = 1-12		
Thymus		Atrophy	Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 1-15			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 2-15	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: HEPATIC, REGIONAL TO HEPATOCLR ADEN, NORMAL.			
Nose	Olfactory Epi Glands	Atrophy	Moderate
		Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 59	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland		
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Moderate
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Minimal
		Foreign Body	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Skin		Acanthosis	Focal, Minimal
		Hyperkeratosis	Focal, Minimal
		Inflammation	Chronic, Multifocal, Minimal
Note: HYPERKERATOSIS TGLs = 1-15			
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 60

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lymph Node - Mesenteric	Pancreas
Pituitary Gland	Prostate	Skin	Spleen
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell Medulla	Hyperplasia Hyperplasia	Multifocal, Mild Focal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Turbinate	Atrophy Exudate	Moderate Moderate
	Glands Turbinate	Foreign Body Hyperplasia	Mild Mild
Salivary Glands		Inflammation	Chronic, Focal, Mild
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Focal, Minimal
Testes	Seminif Tub Seminif Tub	Abscess Degeneration	Focal, Minimal Diffuse, Moderate
Thymus		Mineralization Atrophy	Multifocal, Mild Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 62 TRT#: 3 SEX: Male DAY ON TEST: 592
DOSE: 750 MG/KG DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	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	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland	Stomach - Forestomach	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral, Renal Tubule	Degeneration	Multifocal, Moderate
Liver		Necrosis	Coagulative, Multifocal, Mild
Note: NECROSIS TGLs = 1-11			
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Marked Moderate
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA TGLs = 3-7			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 64 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 730
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas
Prostate	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral, Renal Tubule	Regeneration	Multifocal, Minimal
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 65	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Cortex	Hyperplasia Hypertrophy	Multifocal, Mild Focal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Vacuolization Cytoplasmic	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral Renal Tubule	Inflammation Regeneration	Chronic, Multifocal, Minimal Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Moderate Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Testes	Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Mild
Thymus		Hyperplasia	Lymphoid, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 66	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Pancreas	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Epididymis		Granuloma Sperm	Focal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Nose	Olfactory Epi Glands	Atrophy	Mild
		Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 67

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Medulla Cortex	Hyperplasia Hyperplasia Hypertrophy	Multifocal, Minimal Focal, Moderate Focal, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Acute, Focal, Mild
Liver		Hepatocellular Adenoma Infarct	Focal, Marked
Note: HEPATOCLR ADEN TGLs = 3-11+15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric Mesenteric Inguinal	Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Diffuse, Minimal Lymphoid, Diffuse, Marked Diffuse, Mild
Note: INGUINAL, REGIONAL TO SQUAM CEL CARC.			
Note: HYPERPLASIA TGLs = 4-15.1			
Skin	Prepuce	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 2-15			
Spleen		Lymphoma Malignant Mixed	
Note: [LYMPH MAL MIXD] TGLs = 1-12			
Thymus		Hyperplasia	Lymphoid, Focal, Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 67

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Pancreas
Pituitary Gland	Prostate	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis	Bilateral	Atypia Cellular	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Renal Tubule	Adenoma	
		Inflammation	Chronic, Focal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinate	Hyperplasia	Moderate
Prostate		Inflammation	Acute, Multifocal, Minimal
Stomach	Forestomach	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Forestomach	Acanthosis	Multifocal, Moderate
	Glandular	Inflammation	Chronic, Multifocal, Mild
		Inflammation	Acute, Focal, Moderate

Note: INFLAMMATION TGLs = 2-15
 Note: ACANTHOSIS TGLs = 1-6+15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 72

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Diffuse, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Cyst	Single
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Alveolar Epith	Hypertrophy	Focal, Minimal
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
Salivary Glands		Hyperplasia	Mild
Spleen		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Stomach	Forestomach	Hyperplasia	Lymphoid, Multifocal, Minimal
		Hyperkeratosis	Focal, Minimal
Note: HYPERKERATOSIS	TGLs = 1-15		
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 73

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Urinary Bladder		

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 74 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 207
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Large - Rectum	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Esophagus		Perforation	Focal, Marked
Note: CAUSE OF DEATH			
Note: PERFORATION TGLs = 1 - 2			
Kidney	Renal Tubule	Vacuolization Cytoplasmic	Multifocal, Mild
Liver		Fatty Change	Multifocal, Minimal
Skin	Subcut Tiss	Edema	Diffuse, Moderate
Note: EDEMA TGLs = 3 - 7			
Thymus		Atrophy	Diffuse, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 75 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 729
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Intestine Large - Rectum	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral, Renal Tubule	Concretion	Multifocal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Mild
		Hyperplasia	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Stomach	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-6			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 77	TRT#: 1	SEX: Male	DAY ON TEST: 577
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	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	Kidney	Liver	Lymph Node - Mesenteric
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Heart	Epicardium	Inflammation	Acute, Diffuse, Minimal
Lung	Pleura	Inflammation	Acute, Diffuse, Moderate
Note: INFLAMMATION	TGLs = 2-4		
Nose		Foreign Body	Minimal
Thymus		Atrophy	Diffuse, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 78 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 731
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Heart	Artery	Inflammation	Chronic, Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
	Renal Tubule	Regeneration	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 79 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 731
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Liver	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Lung		Alveolar/Bronchiolar Adenoma	
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Pancreas		Vacuolization Cytoplasmic	Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 80

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Pancreas	Pituitary Gland	Prostate
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: ALV BRON ADEN TGLs = 1-4			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose		Foreign Body	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin		Acanthosis Hyperkeratosis	Multifocal, Minimal Multifocal, Minimal
Note: ACANTHOSIS TGLs = 1-15			
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Spleen
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis	Bilateral	Atypia Cellular	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Mild
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Pancreas		Atrophy	Focal, Minimal
Stomach	Forestomach	Acanthosis	Multifocal, Moderate
	Forestomach	Inflammation	Chronic, Focal, Mild
Note: ACANTHOSIS	TGLs = 1-6+15		
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 83

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Adenoma	
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node			
Note: REGIONAL TO DESCRIBED LIVER MASS IS NORMAL			
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Foreign Body	Minimal
		Hyperplasia	Minimal
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin			
Note: HEAD, FACE AND ABDOMEN			
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Spleen	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Urinary Bladder	

MISSING

Intestine Large - Rectum	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin		Acanthosis	Multifocal, Minimal
		Hyperkeratosis	Multifocal, Minimal
		Inflammation	Chronic, Focal, Minimal
Stomach	Forestomach	Acanthosis	Focal, Mild
Note: ACANTHOSIS TGLs = 1-15			
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 332

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Larynx		Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 1-15		
Note: CAUSE OF DEATH			
Lung		Hemorrhage	Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
	Inguinal	Pigmentation	Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Turbinate	Hemorrhage	Diffuse, Moderate
	Glands	Hyperplasia	Mild
Skin	Neck	Edema	Diffuse, Mild
Note: EDEMA	TGLs = 2-7		
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Trachea	Peritrach Tiss	Hemorrhage	Diffuse, Moderate
Note: CONTRIBUTORY TO DEATH.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Renal Tubule	Degeneration	Focal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
	Renal Tubule	Regeneration	Focal, Minimal
Liver		Hepatocellular Carcinoma	
Note: [HEPATOCLR CARC] TGLs = 3-15			
Lung		Congestion	Diffuse, Moderate
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: REGIONAL TO HEPATOCLR ADEN IS MISSING.			
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Mild
Skin		Acanthosis	Multifocal, Minimal
	Hair Follicle	Atrophy	Diffuse, Moderate
Note: ATROPHY TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 87	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ACANTHOSIS	TGLs = 1-15			
Stomach		Forestomach	Acanthosis	Multifocal, Moderate
		Forestomach	Inflammation	Chronic, Focal, Mild
Note: ACANTHOSIS	TGLs = 5-6+15			
Testes		Seminif Tub	Degeneration	Diffuse, Marked
Note: DEGEN	TGLs = 4-5.1			
Trachea			Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 90	TRT#: 1	SEX: Male	DAY ON TEST: 687
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Latl Ventrcl, Meninges	Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Foreign Body	Minimal
		Inflammation	Chronic, Multifocal, Minimal

Note: INFLAMMATION TGLs = 2-14.3

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 91 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 699
DOSE: VEHICLE CONTROL **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	Gallbladder	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	Pancreas	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea			

MISSING

Mammary Gland Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Bone Marrow		Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Degeneration	Focal, Minimal
		Lymphoma Malignant Mixed	
Note: CAUSE OF DEATH.			
Liver		Lymphoma Malignant Mixed	
Lung		Alveolar/Bronchiolar Adenoma	
		Lymphoma Malignant Mixed	
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild
Skin	Head, Subcut Tiss	Granuloma	Focal, Mild
	Subcut Tiss	Neurofibrosarcoma	
Note: NEUROFIBROSARC TGLs = 2-15			
Note: CAUSE OF DEATH.			
Spleen		Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 93 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 729
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Moderate
	Renal Tubule	Regeneration	Focal, Minimal
Lung	Alveolar Epith	Hypertrophy	Focal, Minimal
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Mild
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Moderate
Testes	Bilateral, Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 94	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Moribund	DAY ON TEST: 592 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lung	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Liver		Necrosis	Coagulative, Diffuse, Marked
Note: NECROSIS TGLs = 4-11			
Lymph Node	Mesenteric	Inflammation	Acute, Diffuse, Mild
Penis		Inflammation	Focal, Moderate
Note: INFLAMMATION TGLs = 1-15			
Pituitary Gland	Craniophar Dct	Cyst	
Skeletal Muscle		Fibrosarcoma	Metastatic (Skin)
Note: [FIBROSARC] TGLs = 3-15			
Skin	Subcut Tiss	Fibrosarcoma	
		Inflammation	Chronic, Focal, Marked
		Ulcer	Focal, Marked
Note: CAUSE OF DEATH.			
Note: ULCER TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Thymus		Atrophy	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 97 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 730
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Marked
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 98	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Pituitary Gland
Prostate	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Mild
		Hyperplasia	Mild
Pancreas		Atrophy	Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Thymus		Atrophy	Diffuse, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:28
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 99 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 730
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Epididymis
Esophagus	Heart	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
Pituitary Gland	Prostate	Spleen	Stomach - Glandular
Testes	Thymus		

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Minimal
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Preputial Gland	Bilateral	Dilatation	Mild
Note: DILATATION TGLs = 1-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Stomach	Forestomach	Abscess	Multifocal, Minimal
	Forestomach	Acanthosis	Multifocal, Minimal
Note: ABSCESS TGLs = 2-6			
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 99

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Spleen
Stomach - Glandular	Testes	Thymus	Thyroid Gland

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: REGIONAL FOR HEPATOCLR ADEN IS MISSING.			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin	Back, Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1-15			
Stomach	Forestomach	Acanthosis	Focal, Mild
Note: ACANTHOSIS TGLs = 4-15			
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Dilatation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:28

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 101	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Small	Jejunum, Peyers Patch	Hyperplasia	Lymphoid, Focal, Moderate
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
Pancreas	Duct	Inflammation	Chronic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 102

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Pancreas
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Minimal
Nose		Foreign Body	Mild
Preputial Gland		Abscess	Focal, Marked
Note: ABSCESS	TGLs = 1-15		
Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Marked
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 461

DOSE: 750 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	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	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Urinary Bladder

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Cortex	Hyperplasia Hypertrophy	Multifocal, Minimal Focal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Nose	Olfactory Epi Turbinate Glands Turbinate	Atrophy Foreign Body Hemorrhage Hyperplasia Inflammation	Moderate Mild Diffuse, Moderate Mild Chronic, Multifocal, Mild
Thymus		Atrophy	Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 105

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Nose	Pancreas	Parathyroid Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Pituitary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Mild
Lung		Alveolar/Bronchiolar Adenoma	
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin		Acanthosis	Multifocal, Mild
	Hair Follicle	Atrophy	Diffuse, Moderate
Note: ATROPHY	TGLs = 1-15		
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
	Bilateral, Renal Tubule	Regeneration	Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinates	Inflammation	Acute, Multifocal, Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Pancreas	Parathyroid Gland	Prostate	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
	Renal Tubule	Regeneration	Focal, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 2-4+15			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Pituitary Gland	Craniophar Dct	Cyst	
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin		Acanthosis	Multifocal, Minimal
Note: ACANTHOSIS TGLs = 1-7			
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 108

TRT#: 2

SEX: Male

DAY ON TEST: 329

DOSE: 375 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Gallbladder	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	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Lymph Node	Inguinal	Hyperplasia	Lymphoid, Multifocal, Minimal
	Inguinal	Pigmentation	Focal, Minimal
Nose	Turbinate	Hemorrhage	Focal, Mild
Skin		Acanthosis	Focal, Minimal
		Hyperkeratosis	Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Thymus	Mediastinum	Hemorrhage	Focal, Marked
Note: CONTRIBUTORY TO DEATH			
Trachea	Peritrach Tiss	Hemorrhage	Diffuse, Marked
Note: CAUSE OF DEATH			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 109 **TRT#:** 1 **SEX:** Male **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	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Prostate	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Epididymis	Bilateral	Vacuolization Cytoplasmic	Multifocal, Minimal
Harderian Gland		Adenoma	
Note: ADENOMA TGLs = 4-15			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Moderate
Nose	Nasolacrim Dct	Inflammation	Chronic, Focal, Mild
Pancreas		Atrophy	Focal, Minimal
Parathyroid Gland		Infiltration Cellular	Lymphocyte, Focal, Mild
Preputial Gland		Abscess	Focal, Marked
Note: ABSCESS TGLs = 1-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Skin	Hair Follicle	Atrophy	Diffuse, Moderate
	Back, Subcut Tiss	Fibroma	
		Inflammation	Chronic, Diffuse, Mild
Note: ATROPHY TGLs = 3-15			
Testes	Bilateral, Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 111

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose		Foreign Body	Minimal
Prostate		Infiltration Cellular	Lymphocyte, Focal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Skin		Acanthosis	Focal, Minimal
	Subcut Tiss	Sarcoma	
		Ulcer	Focal, Marked
Note: ULCER	TGLs = 1-15		
Note: SARCOMA	TGLs = 1-15		
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 718

DOSE: 750 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Brain	Epididymis
Esophagus	Gallbladder	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
Pancreas	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Urinary Bladder

MISSING

Bone	Bone Marrow	Mammary Gland	Nose
Parathyroid Gland			

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Heart	Endocardium	Inflammation	Acute, Focal, Mild
	Epicardium	Inflammation	Acute, Focal, Minimal
Kidney		Cyst	Single
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Testes	Seminif Tub	Degeneration	Focal, Mild
Thymus		Atrophy	Diffuse, Moderate
Thyroid Gland		Ultimobranchial Cyst	
Trachea	Peritrach Tiss	Inflammation	Chronic, Focal, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 117

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Glandular
Testes	Thymus	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Focal, Mild
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 1-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Note: REGIONAL TO HEPATOCLR ADEN IS NORMAL.			
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Focal, Minimal
Stomach	Forestomach	Abscess	Focal, Mild
	Forestomach	Acanthosis	Focal, Moderate
	Forestomach	Inflammation	Chronic, Focal, Mild
Note: ABSCESS TGLs = 2-15			
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Pituitary Gland	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Carcinoma	Metastatic (Uncertain Primary Site)
Intestine Small	Jejunum, Peyers Patch	Hyperplasia	Lymphoid, Focal, Moderate
Kidney	Glomerulus	Carcinoma	Metastatic (Uncertain Primary Site)
	Bilateral, Renal Tubule	Inflammation	Chronic, Focal, Minimal
		Regeneration	Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 2-15			
Lung		Alveolar/Bronchiolar Adenoma	
		Carcinoma	Metastatic (Uncertain Primary Site)
		Hepatocellular Carcinoma	Metastatic (Liver)
Note: [CARCINOMA] TGLs = 5-4			
Lymph Node	Mesenteric	Thrombosis	
Note: THROMBUS TGLs = 4-1			
Note: REGIONAL TO HEPATOCLR CARC NOT EXAMINED.			
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Congestion	Diffuse, Moderate
		Foreign Body	Minimal
	Turbinate	Hemorrhage	Diffuse, Moderate
	Glands	Hyperplasia	Mild
Pancreas		Carcinoma	Metastatic (Uncertain Primary Site)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Stomach	Glandular	Carcinoma	Metastatic (Uncertain Primary Site)
Note: [CARCINOMA] TGLs = 6-6			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 119	TRT#: 2	SEX: Male	DAY ON TEST: 407
	DOSE: 375 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Kidney	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Pituitary Gland
Prostate	Spleen	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Islets, Pancreatic	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Gallbladder	Intestine Small - Duodenum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Stomach	Glandular	Inflammation	Chronic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 120

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Inflammation	Chronic, Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Renal Tubule	Degeneration	Multifocal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Renal Tubule	Regeneration	Multifocal, Minimal
	Alveolar Epith	Hyperplasia	Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Testes	Seminif Tub	Degeneration	Diffuse, Moderate
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 121

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Pituitary Gland	Prostate
Spleen	Stomach - Glandular	Testes	Thymus
Thyroid Gland			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Focal, Minimal
Note: PANCREATIC, REGIONAL TO HEPATOCLR CARC, NORMAL.			
Nose		Foreign Body	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach	Abscess	Focal, Minimal
	Forestomach	Acanthosis	Focal, Moderate
	Forestomach	Inflammation	Chronic, Focal, Mild
Note: ABSCESS TGLs = 2-15			
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 122

TRT#: 1

SEX: Male

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
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Pancreas	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Hemangioma	
	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Atypia Cellular	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Cyst	Multiple, Minimal
		Inflammation	Chronic, Focal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
		Dilatation	Mild
Preputial Gland			
Note: DILATATION	TGLs = 2-15		
Skin		Acanthosis	Multifocal, Minimal
Note: ACANTHOSIS	TGLs = 1-15		
Thyroid Gland		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 127 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 729
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Pancreas	Pituitary Gland
Skin	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland	Stomach - Forestomach	
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Mild Mild
Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 128	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Pancreas
Pituitary Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Adenoma	
Lymph Node	Mediastinal, Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Note: MEDIASTINAL, REGIONAL TO LUNG.			
Nose	Olfactory Epi Glands Turbinates	Atrophy Hyperplasia Inflammation	Moderate Mild Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 131

TRT#: 1

SEX: Male

DAY ON TEST: 289

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Glandular	Testes
Thyroid Gland			

MISSING

Blood Vessel

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Epididymis	Serosa	Inflammation	Acute, Diffuse, Mild
Heart	Epicardium	Inflammation	Acute, Diffuse, Moderate
Kidney		Casts Protein	Diffuse, Marked
	Interstit Tiss	Inflammation	Chronic, Diffuse, Marked
Note: INFLAMMATION TGLs = 3 - 12			
Lung	Pleura	Inflammation	Acute, Multifocal, Moderate
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Moderate
Note: HYPERPLASIA TGLs = 5 - 1			
Mesentery		Inflammation	Acute, Diffuse, Marked
Note: CAUSE OF DEATH			
Pancreas		Abscess	Focal, Marked
Note: ABSCESS TGLs = 1 - 6.1			
Prostate		Abscess	Multifocal, Marked
		Inflammation	Acute, Diffuse, Marked
Seminal Vesicle		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2 - 15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Stomach	Forestomach, Serosa	Inflammation	Acute, Diffuse, Moderate
Thymus	Mediastinum	Abscess	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 131

TRT#: 1

SEX: Male

DAY ON TEST: 289

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Trachea	Peritrach Tiss	Inflammation	Chronic, Multifocal, Moderate
Urinary Bladder	Transit Epithe	Hyperplasia	Diffuse, Moderate
		Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Transit Epithe	Vacuolization Cytoplasmic	Diffuse, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 132

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	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	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Urinary Bladder
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Prostate		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Testes	Bilateral, Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 134

TRT#: 2

SEX: Male

DAY ON TEST: 663

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
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	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
Testes	Bilateral, Seminif Tub	Degeneration	Diffuse, Moderate
Thymus		Atrophy	Diffuse, Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 137

TRT#: 1

SEX: Male

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	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Renal Tubule	Degeneration	Multifocal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Mild
	Renal Tubule	Regeneration	Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: REGIONAL TO HEPATOCLR CARC NOT EXAMINED.			
Nose	Turbinate	Exudate	Moderate
		Foreign Body	Moderate
	Turbinate	Inflammation	Chronic, Focal, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Stomach	Forestomach	Acanthosis	Multifocal, Moderate
	Forestomach	Inflammation	Chronic, Multifocal, Mild
Note: ACANTHOSIS TGLs = 2-15			
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 138 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 680
DOSE: VEHICLE CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Gallbladder	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	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Nose		Foreign Body	Minimal
Skin		Inflammation	Chronic, Focal, Marked
	Subcut Tiss	Sarcoma	
		Ulcer	Focal, Marked
Note: CAUSE OF DEATH.			
Note: SARCOMA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 2-12			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 139	TRT#: 2	SEX: Male	DAY ON TEST: 730
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Liver	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Cecum	Intestine Large - Rectum	Islets, Pancreatic	Mammary Gland
Parathyroid Gland			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Cortex	Hyperplasia Hypertrophy	Multifocal, Mild Focal, Minimal
Epididymis		Inflammation	Chronic, Focal, Mild
Kidney		Cyst	Single
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Mild Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 140

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Alveolar Epith	Hypertrophy	Focal, Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Skin			
Note: HEAD, NECK AND ABDOMEN			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 141

TRT#: 1

SEX: Male

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
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Inflammation	Chronic, Focal, Mild
Kidney		Cyst	Single, Moderate
	Bilateral	Inflammation	Chronic, Multifocal, Mild
	Bilateral, Renal Tubule	Vacuolization Cytoplasmic	Multifocal, Mild
Liver		Infarct	Focal, Marked
Note: INFARCT TGLs = 4-15			
Lung		Alveolar/Bronchiolar Adenoma	
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Sarcoma	
Note: REGIONAL FOR LIVER, MISSING. [Sarcoma TGLS = 3-1+15]			
Nose		Foreign Body	Minimal
Pancreas		Inflammation	Chronic, Multifocal, Minimal
		Sarcoma	Metastatic (Lymph Node)
Preputial Gland		Dilatation	Mild
		Inflammation	Chronic, Diffuse, Moderate
Note: DILATATION TGLs = 1-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 141

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 142	TRT#: 3	SEX: Male	DAY ON TEST: 498
	DOSE: 750 MG/KG	DISP: Accident	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Gallbladder	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
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-5			
Lung		Foreign Body	Mild
		Hemorrhage	Multifocal, Moderate
Note: CAUSE OF DEATH			
Note: HEMORRHAGE TGLs = 4-4			
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinate	Hyperplasia	Mild
		Inflammation	Acute, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	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	Pituitary Gland
Prostate	Salivary Glands	Stomach - Glandular	Testes
Thymus	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Kidney	Renal Tubule	Degeneration	Multifocal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Infarct	Focal, Marked
Note: INFARCT	TGLs = 1-15		
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node			
Note: REGIONAL TO LIVER, NORMAL.			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Minimal
Stomach	Forestomach	Cyst Epithelial Inclusion	Focal, Minimal
	Forestomach	Inflammation	Acute, Focal, Minimal
Note: CYST EPITH INC	TGLs = 2-6		
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 144

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Urinary Bladder

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung		Hemorrhage	Multifocal, Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 145	TRT#: 3	SEX: Male	DAY ON TEST: 3
	DOSE: 750 MG/KG	DISP: Accident	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Urinary Bladder			

MISSING

Intestine Small - Duodenum	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Gallbladder	Intestine Large - Colon
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OBSERVATIONS

Esophagus	Periesoph Tiss	Inflammation	Acute, Diffuse, Moderate
Note: CAUSE OF DEATH			
Note: INFLAMMATION TGLs = 1-2			
Heart	Epicardium	Inflammation	Acute, Diffuse, Minimal
Thymus		Atrophy	Diffuse, Mild
Trachea	Peritrach Tiss	Foreign Body	Multifocal, Mild
	Peritrach Tiss	Hemorrhage	Multifocal, Moderate
	Peritrach Tiss	Inflammation	Acute, Multifocal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 146

TRT#: 2

SEX: Male

DAY ON TEST: 714

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Kidney	Liver
Lung	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Small	Jejunum, Peyers Patch	Lymphoma Malignant Mixed	
Note: CAUSE OF DEATH.			
Note: LYMPH MAL MIXD TGLs = 2-15			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-1			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Focal, Minimal
Preputial Gland		Dilatation	Mild
		Inflammation	Chronic, Diffuse, Mild
Note: DILATATION TGLs = 1-15			
Spleen		Lymphoma Malignant Mixed	
Thymus		Atrophy	Diffuse, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:28
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 147 TRT#: 3 SEX: Male DAY ON TEST: 731
 DOSE: 750 MG/KG 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 - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Epididymis	Bilateral	Atypia Cellular	Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 2-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Note: REGIONAL TO HEPACTOCLR CARC IS NORMAL.			
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Chronic, Diffuse, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Skin	Prepuce	Acanthosis	Diffuse, Minimal
	Prepuce	Inflammation	Chronic, Diffuse, Moderate
Note: INFLAMMATION TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Stomach	Forestomach	Acanthosis	Focal, Moderate
	Forestomach	Inflammation	Chronic, Focal, Minimal
Note: INFLAMMATION TGLs = 3-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 147

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 148

TRT#: 3

SEX: Male

DAY ON TEST: 175

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Bone Marrow
Heart
Pituitary Gland
Thyroid Gland

Adrenal Gland - Medulla
Brain
Intestine Large - Rectum
Prostate
Trachea

Blood Vessel
Epididymis
Lung
Salivary Glands

Bone
Esophagus
Nose
Testes

MISSING

Mammary Gland

Parathyroid Gland

Thymus

AUTO PRECLUDES DIAG.

Gallbladder
Intestine Small - Ileum
Liver
Stomach - Forestomach

Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Stomach - Glandular

Intestine Large - Colon
Islets, Pancreatic
Pancreas
Urinary Bladder

Intestine Small - Duodenum
Kidney
Spleen

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 149

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Pancreas	Pituitary Gland	Salivary Glands	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Small	Duodenum, Peyers Patch	Hyperplasia	Lymphoid, Multifocal, Moderate
Note: HYPERPLASIA TGLs = 1-6			
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Diffuse, Minimal
Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 150 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 670
DOSE: VEHICLE CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Mammary Gland	Pituitary Gland	Stomach - Forestomach
Thymus			

AUTO PRECLUDES DIAG.

Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lymph Node	Axillary	Hyperplasia	Lymphoid, Multifocal, Mild
Note: HYPERPLASIA TGLs = 2-15+15.1			
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Focal, Mild
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA TGLs = 1-15			
Note: CAUSE OF DEATH.			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 3-12			
Testes	Seminif Tub	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 151

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Pancreas	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Epididymis		Inflammation	Chronic, Focal, Minimal
Harderian Gland		Adenoma	
Note: ADENOMA	TGLs = 1-15		
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
	Renal Tubule	Regeneration	Focal, Mild
Liver		Hepatocellular Carcinoma	
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: REGIONAL TO DESCRIBED LIVER MASS IS NORMAL			
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach	Inflammation	Acute, Focal, Mild
Note: INFLAMMATION	TGLs = 3-6		
Trachea		Inflammation	Chronic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 152

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Pituitary Gland
Thymus

Adrenal Gland - Medulla
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Stomach - Forestomach
Urinary Bladder

Blood Vessel
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Stomach - Glandular

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Testes

MISSING

Mammary Gland

Parathyroid Gland

Prostate

OBSERVATIONS

Adrenal GI
Note: ONE OF A PAIR PRESENT.

Gallbladder
Kidney
Lung

Bilateral
Alveolar Epith
Peribronchial

Salivary Glands
Spleen
Thyroid Gland
Trachea

Infiltration Cellular
Inflammation
Hyperplasia
Infiltration Cellular
Infiltration Cellular
Hyperplasia
Ultimobranchial Cyst
Inflammation

Lymphocyte, Diffuse, Mild
Chronic, Multifocal, Minimal
Mild
Lymphocyte, Multifocal, Moderate
Lymphocyte, Multifocal, Minimal
Lymphoid, Multifocal, Minimal
Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 153

TRT#: 1

SEX: Male

DAY ON TEST: 337

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Islets, Pancreatic	Liver	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea			

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Heart	Epicardium	Inflammation	Acute, Focal, Mild
Kidney	Renal Tubule	Bacterium	Multifocal, Moderate
		Concretion	Multifocal, Mild
		Inflammation	Acute, Multifocal, Moderate
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Mild
Nose		Foreign Body	Minimal
Prostate		Inflammation	Acute, Diffuse, Moderate
Skin		Acanthosis	Multifocal, Mild
		Hyperkeratosis	Multifocal, Mild
		Inflammation	Chronic, Multifocal, Minimal
		Ulcer	Focal, Mild
Note: ULCER TGLs = 1-15			
Note: HYPERKERATOSIS TGLs = 2-15			
Thymus		Atrophy	Diffuse, Moderate
		Cyst	Single, Mild
Urethra	Mucosa	Inflammation	Acute, Diffuse, Marked
Note: CAUSE OF DEATH			
Urinary Bladder		Inflammation	Acute, Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:28

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 153

TRT#: 1

SEX: Male

DAY ON TEST: 337

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 154

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Renal Tubule	Regeneration	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Thymus		Mineralization	Multifocal, Minimal
Thyroid Gland		Hyperplasia	Cystic, Focal, Marked
Trachea		Inflammation	Chronic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 155

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Skin	Spleen
Stomach - Glandular	Testes	Thyroid Gland	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Mild Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach	Hyperkeratosis	Focal, Mild
Note: HYPERKERATOSIS	TGLs = 1-6		
Trachea		Inflammation	Chronic, Diffuse, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 156	TRT#: 3	SEX: Male	DAY ON TEST: 602
	DOSE: 750 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mesenteric
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Testes	Thyroid Gland	Urinary Bladder	

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Liver		Fatty Change	Multifocal, Moderate
Nose	Olfactory Epi Glands	Atrophy	Moderate
Skin	Hair Follicle	Hyperplasia	Moderate
Note: ATROPHY TGLs = 1-15		Atrophy	Focal, Mild
Thymus		Atrophy	Diffuse, Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 157	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Mild
Kidney		Cyst	Single
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Focal, Minimal
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 159

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Prostate	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Minimal
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Pancreas		Inflammation	Chronic, Focal, Minimal
Stomach	Forestomach	Abscess	Multifocal, Mild

Note: ABSCESS TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 160

TRT#: 1

SEX: Male

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
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Pituitary Gland
Prostate	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Focal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: ALV BRON ADEN TGLs = 2-15			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-1			
Nose	Turbinate	Foreign Body	Minimal
		Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 161

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	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	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Glandular	Testes	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland	Stomach - Forestomach
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lymph Node			
Note: REGIONAL TO NEUROFIBROSARC, MISSING.			
Skin	Hair Follicle	Atrophy	Diffuse, Moderate
		Cyst Epithelial Inclusion	Single, Mild
	Subcut Tiss	Hemangioma	
	Adventitia, Artery, Subcut Tiss	Inflammation	Chronic, Multifocal, Mild
	Subcut Tiss	Neurofibrosarcoma	
Note: [HEMANGIOMA] TGLs = 3-15			
Note: ATROPHY TGLs = 1-15			
Note: NEUROFIBROSARC TGLs = 2-15			
Thymus		Atrophy	Diffuse, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 162

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Liver	Pancreas	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Islets, Pancreatic	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Epididymis		Spermatocoele	
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
	Renal Tubule	Regeneration	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Diffuse, Mild
Nose	Olfactory Epi Glands	Atrophy	Moderate
		Hyperplasia	Mild
Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Skin		Inflammation	Chronic, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Thymus		Atrophy	Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 163	TRT#: 2	SEX: Male	DAY ON TEST: 669
	DOSE: 375 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Colon	Intestine Large - Rectum	Islets, Pancreatic	Kidney
Liver	Lung	Lymph Node - Mesenteric	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Spleen
Testes	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Gallbladder	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Foreign Body	Mild
		Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 166	TRT#: 1	SEX: Male	DAY ON TEST: 200
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Epididymis	Esophagus	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	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Kidney	Renal Tubule	Casts Protein	Diffuse, Mild
Skin		Inflammation	Chronic, Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 167

TRT#: 1

SEX: Male

DAY ON TEST: 504

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Prostate	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell Bilateral, Medulla	Hyperplasia Lymphoma Malignant Lymphocytic	Focal, Minimal
Bone Marrow		Lymphoma Malignant Lymphocytic	
Brain	Meninges	Lymphoma Malignant Lymphocytic	
Epididymis		Lymphoma Malignant Lymphocytic	
Kidney		Lymphoma Malignant Lymphocytic	
Liver		Lymphoma Malignant Lymphocytic	
Note: CAUSE OF DEATH			
Lung		Lymphoma Malignant Lymphocytic Thrombosis	Diffuse, Marked
Note: THROMBUS TGLs = 2-4			
Note: LYMPH MAL LYMP TGLs = 2-4			
Lymph Node	Mandibular, Mesenteric	Lymphoma Malignant Lymphocytic	
Nose		Lymphoma Malignant Lymphocytic	
Pituitary Gland		Lymphoma Malignant Lymphocytic	
Salivary Glands	Submandibul GI	Lymphoma Malignant Lymphocytic	
Spleen		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 3-12			
Thymus		Atrophy	Diffuse, Moderate
Trachea		Lymphoma Malignant Lymphocytic	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 167

TRT#: 1

SEX: Male

DAY ON TEST: 504

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 168 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 731
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Pituitary Gland	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	

MISSING

Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Inflammation	Chronic, Focal, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Cyst	Multiple
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Turbinate	Exudate	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Pancreas		Vacuolization Cytoplasmic	Multifocal, Minimal
Preputial Gland		Inflammation	Chronic, Diffuse, Moderate
Note: INFLAMMATION TGLs = 1-15			
Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Thyroid Gland	Follicular Cel	Adenoma	
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9971

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder			

MISSING

Gallbladder	Intestine Large - Rectum	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: REGIONAL TO HEPATOCLR CARC IS MISSING.			
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Prostate		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9972

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Pancreas	Parathyroid Gland	Peripheral Nerve	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Heart	Endocardium	Inflammation	Chronic, Focal, Minimal
Liver		Basophilic Focus	
Note: BASOPH FOCUS TGLs = 3-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Axillary	Hyperplasia	Lymphoid, Multifocal, Minimal
	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
	Renal	Hyperplasia	Lymphoid, Multifocal, Minimal
Note: REGIONAL TO FIBROMA			
Note: REGIONAL TO BASOPH FOCUS, LIVER.			
Nose		Foreign Body	Minimal
Skin		Acanthosis	Focal, Moderate
	Back, Subcut Tiss	Fibroma	
		Hyperkeratosis	Focal, Mild
		Ulcer	Focal, Moderate
Note: ACANTHOSIS TGLs = 1-15			
Note: ULCER TGLs = 1-15			
Note: [FIBROMA] TGLs = 2-15			
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild
Thyroid Gland		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9972

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9973 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 729
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Esophagus	Gallbladder	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	Pancreas	Pituitary Gland
Prostate	Spleen	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Inflammation	Chronic, Focal, Minimal
Harderian Gland		Adenoma	
Note: ADENOMA TGLs = 2-15			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 1-4			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Nasolacrim Dct	Inflammation	Chronic, Diffuse, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Stomach	Forestomach	Acanthosis	Focal, Mild
Note: ACANTHOSIS TGLs = 3-6			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9974

TRT#: 1

SEX: Male

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	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Pancreas	Parathyroid Gland	Peripheral Nerve
Prostate	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland		

MISSING

Gallbladder	Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Turbinate	Inflammation	Chronic, Focal, Mild
Preputial Gland		Inflammation	Chronic, Multifocal, Mild
Note: INFLAMMATION TGLs = 1-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hemangiosarcoma	
Trachea		Inflammation	Chronic, Diffuse, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9975	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
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
Pancreas	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland	Prostate
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinate	Hyperplasia	Moderate
Urinary Bladder		Inflammation	Acute, Multifocal, Minimal
		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9976

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder			

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Cortex	Hyperplasia Hypertrophy	Multifocal, Moderate Focal, Mild
Epididymis	Bilateral	Vacuolization Cytoplasmic	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Focal, Minimal
Nose	Olfactory Epi Turbinate	Atrophy Exudate	Mild Mild
	Glands	Foreign Body	Mild
	Turbinate	Hyperplasia	Mild
Stomach	Forestomach	Inflammation	Chronic, Diffuse, Mild
Thyroid Gland		Abscess Ultimobranchial Cyst	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9977

TRT#: 1

SEX: Male

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
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Prostate	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland Note: ONE OF A PAIR PRESENT.	Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Multifocal, Minimal
Epididymis		Inflammation	Chronic, Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9979	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 750 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Marked
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9980 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 731
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland

MISSING

Intestine Large - Rectum Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Kidney		Cyst	Single, Minimal
	Renal Tubule	Degeneration	Focal, Mild
		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Trachea		Inflammation	Chronic, Focal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9982 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 4
DOSE: 750 MG/KG **DISP:** Accident **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Blood Vessel	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	Kidney	Liver	Lung
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Gallbladder	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland Note: ONLY ONE OF A PAIR EXAMINED			
Brain Note: CAUSE OF DEATH Note: HEMORRHAGE TGLs = 01 - 10	Cerebellum	Hemorrhage	Multifocal, Moderate
Heart	Epicardium	Inflammation	Acute, Focal, Mild
Nose	Turbinate	Hemorrhage	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9983 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 622
DOSE: VEHICLE CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Spleen	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum Stomach - Glandular

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9984

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Esophagus	Mammary Gland	Thymus
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Intestine Small	Ileum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-15			
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-11			
Note: CAUSE OF DEATH.			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-15			
[Lymphoma Malignant Mixed TGLS = 2-15,3-15]			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
Pancreas	Artery, Media	Mineralization	Multifocal, Moderate
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9984

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9985 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 637
DOSE: VEHICLE CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland	Thymus
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AUTO PRECLUDES DIAG.

Intestine Large - Colon

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Moderate
Nose	Olfactory Epi Glands	Atrophy	Minimal
		Hyperplasia	Minimal
Pancreas		Necrosis	Focal, Minimal
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9986

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Prostate	Skin	Spleen
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Blood Vessel	Media, Mesent Artery, Renal Artery	Hypertrophy	Diffuse, Mild
	Adventitia, Mesent Artery, Renal Artery	Inflammation	Chronic, Multifocal, Moderate
Brain	Thalamus	Mineralization	Multifocal, Minimal
Heart	Artery	Inflammation	Chronic, Diffuse, Moderate
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Moderate
Nose		Foreign Body	Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach	Abscess	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9987 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 730
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Pancreas	Prostate	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Intestine Large	Cecum, Lymphoid Nodul	Hyperplasia	Lymphoid, Multifocal, Mild
Kidney		Inflammation	Chronic, Focal, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 1-15			
Lymph Node			
Note: REGIONAL TO HEPATOCLR ADEN IS MISSING			
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Focal, Minimal
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9988

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Epididymis	Bilateral	Atypia Cellular	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Moderate Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Stomach	Forestomach Forestomach	Acanthosis Inflammation	Multifocal, Mild Chronic, Focal, Minimal

Note: ACANTHOSIS TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9990

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Mild
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
Pancreas		Atrophy	Focal, Minimal
		Inflammation	Chronic, Focal, Minimal
Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9992

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Epididymis	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Spleen	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Cyst	Multiple, Mild
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi Glands Turbinates	Atrophy Hyperplasia Inflammation	Moderate Mild Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Stomach	Forestomach Forestomach	Acanthosis Inflammation	Multifocal, Minimal Chronic, Focal, Minimal

Note: ACANTHOSIS TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9993	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Nose	Pancreas
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland	Pituitary Gland
Thymus			

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Epididymis		Vacuolization Cytoplasmic	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchiolr	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Focal, Minimal
Preputial Gland		Inflammation	Chronic, Diffuse, Mild
Note: INFLAMMATION TGLs = 1-15			
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9994

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Prostate
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral, Renal Tubule	Degeneration	Multifocal, Mild
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung		Hemorrhage	Multifocal, Minimal
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Trachea		Inflammation	Chronic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9995

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Bone Marrow
Gallbladder
Intestine Small - Ileum
Liver
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Brain
Heart
Intestine Small - Jejunum
Nose
Salivary Glands
Testes

Blood Vessel
Epididymis
Intestine Large - Cecum
Islets, Pancreatic
Pancreas
Skin
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Kidney
Parathyroid Gland
Stomach - Forestomach
Thyroid Gland

MISSING

Intestine Large - Colon

Mammary Gland

Preputial Gland

OBSERVATIONS

Intestine Large
Lung
Lymph Node
Pituitary Gland
Spleen
Trachea

Rectum
Peribronchial
Mesenteric

Inflammation
Infiltration Cellular
Hyperplasia
Hypertrophy
Hyperplasia
Inflammation

Acute, Focal, Minimal
Lymphocyte, Multifocal, Minimal
Lymphoid, Multifocal, Mild
Focal, Minimal
Lymphoid, Multifocal, Minimal
Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9996

TRT#: 1

SEX: Male

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	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Kidney	Lymph Node - Mesenteric
Parathyroid Gland	Pituitary Gland	Prostate	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Focal, Minimal
Epididymis	Bilateral	Vacuolization Cytoplasmic	Diffuse, Moderate
Islets, Pancreatic		Vacuolization Cytoplasmic	Diffuse, Minimal
Liver		Hepatocellular Carcinoma	
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-15			
Note: HEPATOCLR CARC TGLs = 1-11+15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: REGIONAL TO HEPATOCLR CARC IS NORMAL.			
Mammary Gland		Inflammation	Chronic, Multifocal, Mild
Nose		Foreign Body	Minimal
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Testes	Bilateral, Seminif Tub	Vacuolization Cytoplasmic	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 9997

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Pancreas	Pituitary Gland
Skin	Spleen	Stomach - Glandular	Testes
Thymus			

MISSING

Mammary Gland	Parathyroid Gland	Urinary Bladder
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Glands Turbinate	Atrophy Hyperplasia Inflammation	Mild Mild Chronic, Multifocal, Mild
Prostate		Infiltration Cellular	Lymphocyte, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach Forestomach	Abscess Acanthosis	Multifocal, Mild Multifocal, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:28

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 9998

TRT#: 2

SEX: Male

DAY ON TEST: 525

DOSE: 375 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Intestine Large - Cecum	Mammary Gland	Thymus
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AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Harderian Gland		Adenoma	
Note: ADENOMA TGLs = 1-15			
Kidney	Bilateral, Renal Tubule	Concretion	Multifocal, Minimal
Liver		Inflammation	Acute, Focal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Foreign Body	Minimal
		Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 170

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Capsule	Hyperplasia Sarcoma	Diffuse, Mild Metastatic (Skin)
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Kidney	Bilateral, Capsule	Sarcoma	Metastatic (Skin)
Note: SARCOMA	TGLs = 5-12+15		
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Sarcoma	Metastatic (Skin)
Note: REGIONAL TO SARCOMA IS NOT EXAMINED			
Note: SARCOMA	TGLs = 4-1		
Mesentery		Sarcoma	Metastatic (Skin)
Nose	Olfactory Epi Glands Turbinate	Atrophy Hyperplasia Inflammation	Moderate Minimal Chronic, Multifocal, Mild
Ovary		Mineralization	Focal, Mild
Pancreas	Parenchyma	Sarcoma	Metastatic (Skin)
Note: SARCOMA	TGLs = 3-6.1+15		
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA	TGLs = 1-15		
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
	Capsule	Sarcoma	Metastatic (Skin)
Thyroid Gland	Follicle	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 170

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 171

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland Note: ONE OF A PAIR PRESENT	Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Heart	Epicardium	Inflammation	Chronic, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung		Abscess	Multifocal, Moderate
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mediastinal	Abscess	Multifocal, Marked
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin	Hair Follicle	Atrophy	Diffuse, Minimal
Note: ATROPHY	TGLs = 4-15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 171

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Note: HEMA CELL PROL TGLs = 1-12			
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA TGLs = 3-5.2			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 172 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 626
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Esophagus
Intestine Large - Colon	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Uterus

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Gallbladder	Intestine Large - Rectum
Ovary	Salivary Glands		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Heart	Artery	Inflammation	Chronic, Focal, Mild
	Myocardium	Inflammation	Chronic, Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Mesentery		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 1-15			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
Pancreas		Inflammation	Acute, Focal, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Marked
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 173

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	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Spleen	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Diffuse, Mild
	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Mild
Note: HYPERPLASIA TGLs = 1-15			
Nose	Olfactory Epi	Atrophy	Mild
	Turbinates	Exudate	Moderate
		Foreign Body	Moderate
	Glands	Hyperplasia	Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Forestomach	Abscess	Focal, Mild
	Forestomach	Acanthosis	Focal, Moderate
	Forestomach	Inflammation	Chronic, Focal, Mild
Thyroid Gland		Ultimobranchial Cyst	
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 175

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 176	TRT#: 5	SEX: Female	DAY ON TEST: 591
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Spleen		Pigmentation	Diffuse, Mild
Stomach	Forestomach	Inflammation	Acute, Focal, Mild
Thymus		Atrophy	Diffuse, Marked
Thyroid Gland		Inflammation	Acute, Focal, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:28
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 177

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Mammary Gland	Pancreas
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Cortex, Spindle Cell	Cyst Hyperplasia	Single, Mild Diffuse, Moderate
Heart	Myocardium	Inflammation	Chronic, Focal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial Perivascular	Infiltration Cellular Infiltration Cellular	Lymphocyte, Multifocal, Mild Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi	Atrophy Foreign Body	Moderate Minimal
Ovary	Glands Turbinate Bilateral	Hyperplasia Inflammation Cyst	Marked Acute, Multifocal, Minimal Multiple, Moderate
Note: CYST	TGLs = 1-5		
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Dilatation Hyperplasia	Mild Cystic, Diffuse, Minimal
Note: DILATATION	TGLs = 2-15		
Note: HYPERPLASIA	TGLs = 2-5		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 177

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 178

TRT#: 5

SEX: Female

DAY ON TEST: 533

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Islets, Pancreatic
Liver	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Uterus

MISSING

Thymus	Urinary Bladder
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AUTO PRECLUDES DIAG.

Gallbladder	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Heart	Epicardium	Inflammation	Acute, Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Mild
Mammary Gland		Hyperplasia	Diffuse, Mild
Mesentery		Abscess	Multifocal, Moderate
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH			
Note: ABSCESS	TGLs = 3-5		
Pancreas		Inflammation	Acute, Multifocal, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
	Capsule	Inflammation	Acute, Diffuse, Marked
Note: INFLAMMATION	TGLs = 2-12		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 178

TRT#: 5

SEX: Female

DAY ON TEST: 533

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Trachea	Peritrach Tiss	Inflammation	Acute, Focal, Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 180

TRT#: 5

SEX: Female

DAY ON TEST: 658

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Colon	Intestine Large - Rectum	Islets, Pancreatic
Kidney	Liver	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Gallbladder	Lymph Node - Mesenteric	Thymus
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AUTO PRECLUDES DIAG.

Eye	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Bone Marrow		Myelofibrosis	Focal, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Harderian Gland		Adenoma	
Note: ADENOMA TGLs = 3-15			
Lung	Artery, Media	Hypertrophy	Multifocal, Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose		Foreign Body	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Skin	Hair Follicle	Atrophy	Diffuse, Mild
Note: ATROPHY TGLs = 1-15			
Spleen		Pigmentation	Diffuse, Mild
Uterus		Abscess	Multifocal, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 182

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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	Ovary	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Lung	Peribronchial	Alveolar/Bronchiolar Adenoma	Lymphocyte, Multifocal, Minimal
Note: ALV BRON ADEN TGLs = 2-15		Infiltration Cellular	
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Pancreas		Atrophy	Focal, Moderate
	Duct	Dilatation	Moderate
Note: DILATATION TGLs = 1-15			
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 183

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	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	Pituitary Gland
Salivary Glands	Stomach - Glandular	Thymus	Thyroid Gland
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Minimal Diffuse, Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Peribronchial	Hemorrhage	Focal, Minimal
Lymph Node	Mandibular, Sinus	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: ECTASIA		Ectasia	Diffuse, Moderate
Nose	Olfactory Epi Turbinates	Atrophy Exudate	Moderate Mild
	Glands	Foreign Body	Mild
	Turbinates	Hyperplasia	Minimal
Ovary		Inflammation	Chronic, Multifocal, Mild
Note: ABSCESS		Abscess	Focal, Marked
Pancreas			
Skin		Atrophy	Focal, Marked
Note: ACANTHOSIS		Acanthosis	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 183

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Organ	Accountable Site	Status	Histo
Stomach	Forestomach	Hyperplasia	Lymphoid, Diffuse, Mild
	Forestomach	Acanthosis	Focal, Moderate
	Forestomach	Inflammation	Chronic, Focal, Moderate
Note: INFLAMMATION TGLs = 4-6			
Trachea		Inflammation	Chronic, Multifocal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 184 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 612
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Islets, Pancreatic	Mammary Gland	Parathyroid Gland	Thyroid Gland
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland Note: ONE OF A PAIR PRESENT.	Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Lymphoma Malignant Mixed	
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Mesentery Note: LYMPH MAL MIXD TGLs = 2-5+15		Lymphoma Malignant Mixed	
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Minimal Minimal
Ovary Note: LYMPH MAL MIXD TGLs = 4-5		Lymphoma Malignant Mixed	
Spleen Note: LYMPH MAL MIXD TGLs = 3-12 Note: CAUSE OF DEATH.		Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 185

TRT#: 5

SEX: Female

DAY ON TEST: 708

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Gallbladder	Heart	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	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Esophagus	Periesoph Tiss	Abscess	Focal, Marked
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Iliac	Infiltration Cellular	Plasma Cell, Diffuse, Mild
Note: INFILTRAT CELL TGLs = 3-15			
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Marked
		Foreign Body	Mild
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15			
Note: CAUSE OF DEATH.			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
		Hyperplasia	Lymphoid, Diffuse, Minimal
Trachea		Inflammation	Chronic, Diffuse, Mild
Uterus		Abscess	Multifocal, Moderate
Note: ABSCESS TGLs = 1-5+15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 185

TRT#: 5

SEX: Female

DAY ON TEST: 708

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 187

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Pituitary Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Cortex	Hyperplasia Hypertrophy	Diffuse, Mild Focal, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy Foreign Body	Moderate Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Cyst	Single, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 188 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 625
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Salivary Glands

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Kidney	Pelvis	Bacterium	Multifocal, Mild
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Mesentery		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 3-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA TGLs = 2-5+15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 189

TRT#: 5

SEX: Female

DAY ON TEST: 709

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Rectum	Oviduct
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Heart	Epicardium	Inflammation	Chronic, Diffuse, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
	Serosa	Inflammation	Acute, Multifocal, Moderate
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Iliac	Infiltration Cellular	Plasma Cell, Diffuse, Mild
	Mesenteric	Infiltration Cellular	Plasma Cell, Diffuse, Mild
Note: INFILTRAT CELL TGLs = 3-15			
Mammary Gland		Hyperplasia	Diffuse, Mild
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15			
Note: CAUSE OF DEATH.			
Pancreas		Inflammation	Chronic, Multifocal, Minimal
Pituitary Gland		Adenoma	
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Thymus		Atrophy	Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 189

TRT#: 5

SEX: Female

DAY ON TEST: 709

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Ultimobranchial Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:28
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 190

TRT#: 5

SEX: Female

DAY ON TEST: 609

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Rectum
Kidney	Liver	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Glandular
Thyroid Gland			

MISSING

Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Stomach - Forestomach
Urinary Bladder			

AUTO PRECLUDES DIAG.

Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Multifocal, Minimal
	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Moderate
	Renal	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Note: INFILTRAT CELL TGLs = 4-15			
Mesentery		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 2-15,3-15			
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 1-5+15			
Pancreas		Abscess	Multifocal, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Thymus		Atrophy	Diffuse, Marked
Uterus		Inflammation	Acute, Diffuse, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 193

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Moderate
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Mild
Note: REGIONAL TO PAPILLOMA SQUA IS NORMAL			
Nose	Olfactory Epi	Atrophy	Marked
	Turbinates	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinates	Inflammation	Chronic, Diffuse, Mild
	Turbinates	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Stomach	Forestomach	Hyperplasia	Basal Cell, Marked
	Forestomach	Squamous Cell Carcinoma	
	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-6			
Trachea		Inflammation	Chronic, Diffuse, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 193

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 194

TRT#: 5

SEX: Female

DAY ON TEST: 693

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	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
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Mild Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung	Peribronchial	Hemorrhage	Focal, Mild
Lymph Node	Mesenteric Renal	Infiltration Cellular Infiltration Cellular Infiltration Cellular	Lymphocyte, Multifocal, Minimal Plasma Cell, Diffuse, Moderate Plasma Cell, Diffuse, Moderate
Note: INFILTRAT CELL TGLs = 2-15			
Mesentery		Abscess	Multifocal, Moderate
Nose	Olfactory Epi	Atrophy Foreign Body	Minimal Minimal
Ovary	Turbinates Bilateral	Inflammation Abscess	Chronic, Multifocal, Marked Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 3-15,4-15			
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Thymus		Atrophy	Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 194

TRT#: 5

SEX: Female

DAY ON TEST: 693

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 195 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 582
DOSE: 375 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Gallbladder
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Islets, Pancreatic
Liver	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Uterus			

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Cortex, Spindle Cell Capsule	Hematopoietic Cell Proliferation Hyperplasia Inflammation	Multifocal, Minimal Multifocal, Minimal Chronic, Multifocal, Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Esophagus	Periesoph Tiss	Inflammation	Chronic, Mild
Heart	Pericardium	Inflammation	Chronic, Focal, Mild
Intestine Large	Cecum, Wall Cecum	Abscess Ulcer	Multifocal, Marked Diffuse, Marked
Note: CAUSE OF DEATH			
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Note: ABSCESS TGLs = 1-6.1 + 1-15			
Kidney	Bilateral, Cortex Bilateral, Renal Tubule Bilateral, Renal Tubule Bilateral Capsule, Interstit Tiss Bilateral, Renal Tubule	Abscess Bacterium Casts Protein Glomerulosclerosis Inflammation	Multifocal, Moderate Multifocal, Moderate Multifocal, Minimal Diffuse, Minimal Chronic, Moderate
Lung	Bilateral, Renal Tubule Pleura	Pigmentation Inflammation	Multifocal, Mild Chronic, Diffuse, Moderate
Note: INFLAMMATION TGLs = 2-4			
Lymph Node	Mandibular Mesenteric	Infiltration Cellular Infiltration Cellular	Plasma Cell, Diffuse, Moderate Plasma Cell, Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 195	TRT#: 6	SEX: Female	DAY ON TEST: 582
	DOSE: 375 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Ovary	Periovarn Tiss	Inflammation	Chronic, Diffuse, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Thymus	Mediastinum	Abscess	Multifocal, Moderate
		Atrophy	Diffuse, Moderate
Trachea	Peritrach Tiss	Inflammation	Chronic, Diffuse, Moderate
Urinary Bladder	Serosa	Inflammation	Chronic, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 197

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Mammary Gland	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Alveolar/Bronchiolar Adenoma	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Pancreas		Inflammation	Chronic, Focal, Mild
Skin		Inflammation	Chronic, Diffuse, Minimal
Note: INFLAMMATION TGLs = 1-7			
Note: ABDOMEN AND NECK			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 199

TRT#: 5

SEX: Female

DAY ON TEST: 681

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Eye	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Gallbladder

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Esophagus	Periesoph Tiss	Abscess	Multifocal, Marked
Heart	Myocardium	Inflammation	Acute, Focal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mediastinal	Abscess	Focal, Marked
	Renal	Infiltration Cellular	Plasma Cell, Diffuse, Marked
Note: INFILTRAT CELL TGLs = 5-15			
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Mild
	Turbinate	Hemorrhage	Focal, Moderate
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 4-15			
Note: CAUSE OF DEATH.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 199

TRT#: 5

SEX: Female

DAY ON TEST: 681

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands

Infiltration Cellular

Lymphocyte, Focal, Moderate

Spleen

Hematopoietic Cell Proliferation

Diffuse, Mild

Note: HEMA CELL PROL TGLs = 3-12

Urinary Bladder

Infiltration Cellular

Lymphocyte, Focal, Minimal

Uterus

Dilatation

Mild

Lumen

Exudate

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 200 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 731
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Mammary Gland	Ovary	Pancreas
Pituitary Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Urinary Bladder		

MISSING

Intestine Large - Rectum	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi Glands	Atrophy	Moderate
Salivary Glands		Hyperplasia	Mild
Skin		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
		Acanthosis	Multifocal, Minimal
Note: ACANTHOSIS TGLs = 1-15			
Trachea		Inflammation	Chronic, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 201 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 731
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Stomach	Forestomach	Acanthosis	Focal, Mild
Note: ACANTHOSIS	TGLs = 2-15		
Uterus		Dilatation	Moderate
Note: DILATATION	TGLs = 1-15		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 203

TRT#: 7

SEX: Female

DAY ON TEST: 539

DOSE: 750 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	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	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Glandular	Thymus	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Lung	Peribronchiolr	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Diffuse, Moderate
Stomach	Forestomach	Inflammation	Acute, Focal, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Acute, Focal, Minimal

PRIMARY CAUSE OF DEATH

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Animal Note: CAUSE OF DEATH UNKNOWN.

Animal Note: COD UNKNOWN.

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 204

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Lymphoma Malignant Mixed	
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Lymphoma Malignant Mixed	
Liver		Lymphoma Malignant Mixed	
Lung		Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
		Hyperplasia	Lymphoid, Focal, Moderate
	Turbinate	Inflammation	Acute, Diffuse, Minimal
Pancreas		Atrophy	Diffuse, Marked
	Duct	Cyst	Single, Moderate
	Duct	Inflammation	Chronic, Multifocal, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Spleen		Lymphoma Malignant Mixed	
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus		Dilatation	Mild

Note: DILATATION TGLs = 1-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 204

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 205	TRT#: 7	SEX: Female	DAY ON TEST: 389
	DOSE: 750 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	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	Pancreas
Pituitary Gland	Salivary Glands	Spleen	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Large - Rectum	Parathyroid Gland	Stomach - Forestomach
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Moderate Moderate
Ovary		Cyst	Multiple, Marked
Note: CYST TGLs = 1-15			
Uterus		Dilatation	Mild
Note: DILATATION TGLs = 2-15			

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:29
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 206

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Blood Vessel	Bone
Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Gallbladder		Inflammation	Acute, Focal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Infiltration Cellular	Lymphocyte, Focal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Mild
	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Moderate
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin		Acanthosis	Multifocal, Minimal
		Hyperkeratosis	Multifocal, Minimal
		Inflammation	Chronic, Diffuse, Mild

Note: INFLAMMATION TGLs = 1-7+15

Note: ACANTHOSIS, HYPERKERATOSIS-THORAX

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 206	TRT#: 6	SEX: Female	DAY ON TEST: 729
	DOSE: 375 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION-ABDOMEN, BACK AND THORAX

Note: ACANTHOSIS TGLs = 1-15

Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 207

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney	Renal Tubule	Degeneration	Multifocal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
	Bilateral, Renal Tubule	Regeneration	Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Skin		Acanthosis	Multifocal, Minimal
		Hyperkeratosis	Multifocal, Minimal
		Inflammation	Chronic, Multifocal, Minimal

Note: ACANTHOSIS, HYPERKERATOSIS, INFLAMMATION-BACK AND NECK

Note: INFLAMMATION TGLs = 1-15

Thyroid Gland		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 208

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Stomach - Glandular	Thymus	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Intestine Large	Cecum, Lymphoid Nodul	Hyperplasia	Lymphoid, Multifocal, Mild
	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Inflammation	Acute, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinat	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinat	Inflammation	Chronic, Multifocal, Moderate
	Turbinat	Inflammation	Acute, Diffuse, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Stomach	Forestomach	Acanthosis	Focal, Mild
Note: ACANTHOSIS	TGLs = 2-15		
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal
Note: HYPERPLASIA	TGLs = 1-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 209

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	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Glandular	Thyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Ovary	Bilateral	Cyst	Multiple, Mild
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-12			
Stomach	Forestomach	Acanthosis	Focal, Mild
	Forestomach	Inflammation	Chronic, Focal, Minimal
Thymus		Lymphoma Malignant Mixed	
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA TGLs = 3-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 212

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Liver	Bile Duct	Mineralization	Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi Glands	Atrophy	Mild
		Hyperplasia	Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 213

TRT#: 5

SEX: Female

DAY ON TEST: 465

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Heart	Epicardium	Inflammation	Acute, Focal, Mild
Kidney		Inflammation	Chronic, Focal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Focal, Minimal
	Inguinal	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Mesentery		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH			
Nose	Turbinate	Exudate	Mild
		Foreign Body	Mild
Ovary		Abscess	Focal, Mild
Note: ABSCESS	TGLs = 1-5		
Pancreas		Inflammation	Acute, Diffuse, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thymus		Atrophy	Diffuse, Moderate
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 214

TRT#: 5

SEX: Female

DAY ON TEST: 707

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Eye	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Uterus			

MISSING

Parathyroid Gland	Thymus
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver	Serosa	Abscess	Focal, Marked
		Hematopoietic Cell Proliferation	Multifocal, Mild
Note: ABSCESS	TGLs = 3-15		
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Multifocal, Mild
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Mammary Gland		Hyperplasia	Diffuse, Minimal
Mesentery		Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 6-6+6.1+6.2		
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Minimal
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 5-5+15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 214

TRT#: 5

SEX: Female

DAY ON TEST: 707

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CAUSE OF DEATH.

Skin	Back, Subcut Tiss Hair Follicle	Abscess Atrophy	Focal, Marked Focal, Mild
Note: ATROPHY Note: ABSCESS	TGLs = 1-15 TGLs = 4-15		
Spleen		Hematopoietic Cell Proliferation	Diffuse, Marked
Note: HEMA CELL PROL	TGLs = 2-12		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:29
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 215 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 729
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Lymphoma Malignant Mixed	
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinates	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinates	Inflammation	Acute, Multifocal, Mild
Ovary		Cyst	Single, Moderate
Pancreas		Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Skin		Acanthosis	Multifocal, Mild
		Inflammation	Chronic, Multifocal, Minimal
Note: ACANTHOSIS TGLs = 1-15			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-12+15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus		Dilatation	Mild
	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 215

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 216

TRT#: 6

SEX: Female

DAY ON TEST: 550

DOSE: 375 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Pancreas	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Uterus	

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Minimal
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 1-5			
Pituitary Gland	Craniophar Dct	Cyst	
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 218

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Mammary Gland	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Focal, Minimal
Kidney	Renal Tubule	Adenoma	
		Lymphoma Malignant Mixed	
Note: [ADENOMA] TGLs = 5-15			
Lung		Alveolar/Bronchiolar Adenoma	
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: ALV BRON ADEN TGLs = 3-4			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Mild
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Mild
	Mesenteric	Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Moderate
	Turbinates	Inflammation	Acute, Multifocal, Mild
	Turbinates	Inflammation	Chronic, Diffuse, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-12			
Stomach	Forestomach	Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 218

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PAPILLOMA SQUA TGLs = 4-15

Urinary Bladder

Uterus

Infiltration Cellular

Dilatation

Hyperplasia

Lymphocyte, Focal, Mild

Moderate

Cystic, Diffuse, Mild

Endometrium

Note: DILATATION TGLs = 2-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 222

TRT#: 5

SEX: Female

DAY ON TEST: 643

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Stomach - Forestomach

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Focal, Minimal Multifocal, Mild
Kidney	Bilateral Bilateral	Glomerulosclerosis Inflammation	Diffuse, Minimal Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric Mesenteric	Hyperplasia Inflammation	Reticulum Cell, Diffuse, Mild Acute, Focal, Minimal
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi Turbinate	Atrophy Exudate Foreign Body	Moderate Mild Mild
	Glands Turbinate	Hyperplasia Inflammation	Minimal Chronic, Multifocal, Mild
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15			
Note: CAUSE OF DEATH.			
Pancreas		Inflammation	Acute, Diffuse, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Note: HEMA CELL PROL TGLs = 1-12			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 222

TRT#: 5

SEX: Female

DAY ON TEST: 643

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
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PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 225

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Glandular	Thyroid Gland		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Moderate
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi Glands Turbinate	Atrophy Hyperplasia Inflammation	Moderate Mild Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Multifocal, Mild
Stomach	Forestomach Forestomach Forestomach	Acanthosis Hyperkeratosis Inflammation	Focal, Mild Focal, Minimal Chronic, Focal, Mild
Note: ACANTHOSIS	TGLs = 3-6		
Thymus		Hyperplasia	Lymphoid, Multifocal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Moderate
Note: DILATATION	TGLs = 1-5		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 226

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Ovary	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinates	Inflammation	Acute, Multifocal, Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Minimal
Ovary			
Note: ONE OF A PAIR PRESENT.			
Pancreas	Duct	Cyst	Single, Mild
	Duct	Inflammation	Chronic, Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Skin		Acanthosis	Focal, Minimal
	Hair Follicle	Atrophy	Diffuse, Mild
Note: ATROPHY	TGLs = 1-15		
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 226

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:29
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 227 TRT#: 7 SEX: Female DAY ON TEST: 549
 DOSE: 750 MG/KG DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Kidney	Liver
Lung	Ovary	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Gallbladder	Intestine Large - Rectum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Mesentery		Inflammation	Acute, Multifocal, Marked
	Fat	Necrosis	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: NECROSIS TGLs = 1-5+15			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Turbinate	Fungus	Focal, Marked
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Focal, Marked
Pancreas		Atrophy	Focal, Marked
		Inflammation	Chronic, Diffuse, Moderate
		Necrosis	Focal, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 228

TRT#: 5

SEX: Female

DAY ON TEST: 576

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

Gallbladder

INSUFFICIENT TISSUE

Lymph Node - Mesenteric Pituitary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Bone	Femur	Fibrous Osteodystrophy	Diffuse, Moderate
Note: MARKED INCREASE IN NUMBER OF OSTEOCLASTS.			
Kidney	Glomerulus, Renal Tubule	Amyloid Deposition	Diffuse, Marked
	Renal Tubule	Casts Protein	Multifocal, Mild
		Cyst	Multiple, Moderate
	Interstit Tiss, Renal Tubule	Pigmentation	Multifocal, Minimal
	Renal Tubule	Regeneration	Multifocal, Mild
Note: CAUSE OF DEATH			
Note: AMYLOID DEP TGLs = 1-2			
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose		Foreign Body	Mild
	Turbinate	Fungus	Multifocal, Moderate
	Turbinate	Inflammation	Acute, Multifocal, Mild
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
	Turbinate	Ulcer	Focal, Mild
Spleen	Artery, Trabecula	Amyloid Deposition	Multifocal, Mild
		Pigmentation	Diffuse, Minimal
Thymus		Atrophy	Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 228

TRT#: 5

SEX: Female

DAY ON TEST: 576

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Ultimobranchial Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 230

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Esophagus	Ovary	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Chronic, Focal, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 231

TRT#: 6

SEX: Female

DAY ON TEST: 491

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	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	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

MISSING

Intestine Large - Rectum	Ovary	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 232 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 729
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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
Ovary	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Marked
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinate	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Pancreas	Duct	Inflammation	Chronic, Focal, Minimal
Salivary Glands		Inflammation	Chronic, Multifocal, Minimal
Skin		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Hair Follicle	Acanthosis	Focal, Minimal
		Atrophy	Diffuse, Mild
Note: ATROPHY TGLs = 1-15			
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 233

TRT#: 7

SEX: Female

DAY ON TEST: 535

DOSE: 750 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Liver	Ovary	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell Cortex	Hyperplasia Sarcoma	Diffuse, Minimal Metastatic (Skeletal Muscle)
Liver		Sarcoma	Metastatic (Skeletal Muscle)
Lung	Parenchyma	Sarcoma	Metastatic (Skeletal Muscle)
Lymph Node	Mediastinal Mesenteric	Sarcoma Sarcoma	Metastatic (Uncertain Primary Site)
Note: PREFEMORAL, REGIONAL, NORMAL.			
Note: SARCOMA TGLs = 1-1			
Note: THE SARCOMA AT THE MEDIASTINAL SITE IS METASTATIC			
Mesentery	Fat	Sarcoma	Metastatic (Skeletal Muscle)
Note: SARCOMA TGLs = 4-15			
Nose	Olfactory Epi Turbinate	Atrophy Exudate Foreign Body	Moderate Mild Minimal
	Glands Turbinate	Hyperplasia Inflammation	Moderate Acute, Multifocal, Mild
Pancreas	Parenchyma	Sarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle	Back	Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 233	TRT#: 7 DOSE: 750 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 535 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: CAUSE OF DEATH Note: SARCOMA TGLs = 2-15 + 3-15	Diaphragm	Sarcoma	Metastatic (Skeletal Muscle)
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus	Capsule	Sarcoma	Metastatic (Skeletal Muscle)
		Atrophy	Diffuse, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 234

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Intestine Small	Jejunum, Peyers Patch	Hyperplasia	Lymphoid, Diffuse, Moderate
Note: HYPERPLASIA TGLs = 2-6			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin	Hair Follicle	Acanthosis	Diffuse, Minimal
Note: ACANTHOSIS TGLs = 1-15			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 236 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 608
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Rectum	Islets, Pancreatic	Kidney	Liver
Parathyroid Gland	Pituitary Gland	Thymus	Thyroid Gland
Trachea	Uterus		

MISSING

Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Urinary Bladder
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mesenteric		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Mammary Gland		Hyperplasia	Diffuse, Minimal
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Mild
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 3-5			
Pancreas		Abscess	Multifocal, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
	Capsule	Inflammation	Chronic, Focal, Marked
Note: HEMA CELL PROL TGLs = 1-12+15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 237

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Intestine Small	Jejunum, Peyers Patch	Hyperplasia	Lymphoid, Focal, Moderate
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Trachea		Inflammation	Chronic, Focal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus		Dilatation	Mild
	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

Note: DILATATION TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 238

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Pancreas	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Cyst	Single, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Thymus		Hyperplasia	Lymphoid, Focal, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus		Dilatation	Mild

Note: DILATATION TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 239

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Mammary Gland	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Gallbladder	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Heart	Epicardium	Inflammation	Chronic, Focal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung		Abscess	Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Focal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 3-5			
Pancreas		Inflammation	Acute, Diffuse, Moderate
Skin	Hair Follicle	Atrophy	Diffuse, Minimal
Note: ATROPHY TGLs = 4-7			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
	Capsule	Inflammation	Chronic, Focal, Marked
Note: HEMA CELL PROL TGLs = 1-12			
Thyroid Gland		Ultimobranchial Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 239

TRT#: 6
DOSE: 375 MG/KG

SEX: Female
DISP: Moribund

DAY ON TEST: 707
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Trachea		Inflammation	Chronic, Focal, Minimal
Uterus	Endometrium	Edema	Diffuse, Mild
Note: EDEMA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 240

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node			
Note: REGIONAL TO HEPATOCLR CARC IS NOT EXAMINED			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinates	Inflammation	Chronic, Multifocal, Minimal
Pancreas		Inflammation	Chronic, Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Moderate
	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal
Note: DILATATION TGLs = 2-5+15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 242 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 417
DOSE: VEHICLE CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Kidney
Liver	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Gallbladder	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Lung	Artery, Media	Hemorrhage	Multifocal, Minimal
	Peribronchiolr	Hypertrophy	Multifocal, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
	Bronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node		Hyperplasia	Lymphoid, Diffuse, Mild
Nose		Foreign Body	Minimal
Spleen		Pigmentation	Diffuse, Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 243 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 3
DOSE: 750 MG/KG **DISP:** Accident **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood Vessel	Bone
Bone Marrow	Brain	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Kidney	Liver
Mammary Gland	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Uterus

AUTO PRECLUDES DIAG.

Gallbladder	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lymph Node - Mesenteric	Pancreas	Urinary Bladder	

INSUFFICIENT TISSUE

Islets, Pancreatic

OBSERVATIONS

Esophagus		Perforation	Focal, Marked
Note: PERFORATION TGLs = 1 - 2			
Lung	Pleura	Foreign Body	Focal, Mild
	Pleura	Inflammation	Acute, Multifocal, Moderate
Note: CAUSE OF DEATH			
Note: INFLAMMATION TGLs = 2 - 4			
Nose		Foreign Body	Minimal
Trachea	Peritrach Tiss	Foreign Body	Focal, Mild
	Peritrach Tiss	Hemorrhage	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 244

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	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Pancreas	Salivary Glands	Spleen	Stomach - Glandular
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland	Pituitary Gland	Thymus	Thyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Kidney	Renal Tubule	Degeneration	Focal, Mild
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Renal Tubule	Regeneration	Multifocal, Minimal
		Hemorrhage	Multifocal, Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Note: HEMORRHAGE TGLs = 1-4			
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose		Foreign Body	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Ovary		Cyst	Single, Moderate
Stomach	Forestomach	Acanthosis	Multifocal, Mild
Note: ACANTHOSIS TGLs = 2-6			
Trachea		Inflammation	Chronic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 245

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
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Urinary Bladder

MISSING

Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Glands Turbinate Turbinate	Atrophy Hyperplasia Inflammation Inflammation	Minimal Minimal Chronic, Multifocal, Mild Acute, Multifocal, Minimal
Ovary		Adenoma	Papillary
Note: ADENOMA	TGLs = 1-5		
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Focal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 246

TRT#: 5

SEX: Female

DAY ON TEST: 533

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Uterus	

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Diffuse, Mild Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Moderate
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Mild
Mammary Gland		Hyperplasia	Diffuse, Mild
Mesentery		Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 2-5+6+6.1		
Nose	Olfactory Epi Glands Turbinates	Atrophy Foreign Body Hyperplasia Inflammation Abscess	Marked Mild Minimal Chronic, Multifocal, Mild Focal, Marked
Ovary			
Note: CAUSE OF DEATH.			
Note: ABSCESS	TGLs = 1-5		
Pancreas		Inflammation	Acute, Multifocal, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 246

TRT#: 5

SEX: Female

DAY ON TEST: 533

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 248

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney		Inflammation	Chronic, Multifocal, Minimal
	Renal Tubule	Regeneration	Focal, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Skin		Acanthosis	Diffuse, Minimal
		Inflammation	Chronic, Focal, Minimal
Note: ACANTHOSIS	TGLs = 1-15		
Note: SKIN NECK			
Spleen		Hyperplasia	Lymphoid, Diffuse, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 249

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
	Turbinate	Inflammation	Acute, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 250	TRT#: 5 DOSE: VEHICLE CONTROL	SEX: Female DISP: Dead	DAY ON TEST: 653 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Islets, Pancreatic	Kidney
Liver	Mammary Gland	Ovary	Pituitary Gland
Salivary Glands	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Mesenteric Thymus	Nose	Parathyroid Gland	Stomach - Forestomach
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum Pancreas	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Lung	Peribronchiolr Perivascular	Infiltration Cellular Infiltration Cellular	Lymphocyte, Multifocal, Minimal Lymphocyte, Multifocal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 252 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 731
DOSE: 750 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung		Alveolar/Bronchiolar Adenoma	
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Note: ALV BRON ADEN TGLs = 3-4			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Mild
	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 253

TRT#: 6

SEX: Female

DAY ON TEST: 435

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone Marrow	Brain
Esophagus	Gallbladder	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	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Bone	Femur	Fracture Healed	
Note: FRACT HEALED TGLs = 1-14			
Lung		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: CONTRIBUTORY TO DEATH			
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Mild
		Foreign Body	Moderate
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Skeletal Muscle		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: OSTEOSARC TGLs = 2-15			
Note: CAUSE OF DEATH			
Spleen		Pigmentation	Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 254

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Spleen	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Stomach	Forestomach	Acanthosis	Focal, Minimal
	Forestomach	Hyperkeratosis	Focal, Mild
Uterus		Dilatation	Mild

Note: DILATATION TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 255

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
	Bilateral, Renal Tubule	Pigmentation	Multifocal, Moderate
Lung		Alveolar/Bronchiolar Adenoma	
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Mesentery		Cyst	Single, Marked
		Pigmentation	Diffuse, Moderate
Note: CYST	TGLs = 1-15		
Note: EPITHELIAL LINING OF CYST IS REMANENT OF EMBRYONIC DUCT			
Note: GRANULATION TISSUE EXTENSIVE IN WALL OF CYST			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Ovary		Cyst	Single, Moderate
Note: CYST	TGLs = 2-5		
Pancreas		Inflammation	Chronic, Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 255

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Urinary Bladder

Uterus

Endometrium

Ultimobranchial Cyst

Infiltration Cellular

Hyperplasia

Lymphocyte, Focal, Minimal

Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 256

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Glandular	Thymus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Stomach	Forestomach	Abscess	Focal, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
		Inflammation	Acute, Diffuse, Minimal

Note: HYPERPLASIA TGLs = 1-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 256

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 257

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Parathyroid Gland	Thyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Focal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Moderate
Note: HYPERPLASIA TGLs = 1-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 258

TRT#: 5

SEX: Female

DAY ON TEST: 627

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	

MISSING

Thymus

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Brain	Meninges	Abscess	Focal, Marked
	Meninges	Inflammation	Acute, Focal, Marked
Note: CAUSE OF DEATH.			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Multifocal, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 259

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mandibular	Mammary Gland	Ovary
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Glandular
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
Pancreas	Duct	Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Stomach	Forestomach	Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 2-15			
Thymus		Atrophy	Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Focal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
		Inflammation	Acute, Diffuse, Minimal
Note: HYPERPLASIA TGLs = 1-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 259

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:29
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 261 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 692
DOSE: VEHICLE CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Heart	Artery	Inflammation	Chronic, Focal, Moderate
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Artery, Media Adventitia, Artery	Hypertrophy Inflammation	Multifocal, Moderate Chronic, Multifocal, Moderate
Mammary Gland		Hyperplasia	Diffuse, Minimal
Mesentery		Abscess	Multifocal, Mild
Nose	Olfactory Epi Turbinate	Atrophy Exudate	Mild Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 1-15			
Note: CAUSE OF DEATH.			
Pancreas		Atrophy Inflammation	Multifocal, Minimal Chronic, Diffuse, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus		Abscess	Multifocal, Marked
Thyroid Gland		Granuloma	Focal, Moderate
Uterus		Inflammation	Acute, Diffuse, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 261

TRT#: 5

SEX: Female

DAY ON TEST: 692

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 262

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Ovary
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Peribronchial	Alveolar/Bronchiolar Adenoma	
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Note: ALV BRON ADEN TGLs = 2-15			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Diffuse, Moderate
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinates	Hyperplasia	Mild
Pancreas		Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Inflammation	Chronic, Focal, Minimal
Thymus		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Thyroid Gland		Hyperplasia	Lymphoid, Focal, Mild
Urinary Bladder		Ultimobranchial Cyst	
Uterus		Infiltration Cellular	Lymphocyte, Multifocal, Mild
		Dilatation	Marked
Note: DILATATION TGLs = 1-5			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 263

TRT#: 5

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Bone Marrow	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Infiltration Cellular	Lymphocyte, Focal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Turbinates	Inflammation	Chronic, Multifocal, Minimal
Ovary		Cyst	Single, Minimal
Pancreas		Inflammation	Chronic, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 264

TRT#: 5

SEX: Female

DAY ON TEST: 645

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	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
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Multifocal, Minimal
	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Bone Marrow		Hypoplasia	Diffuse, Moderate
Kidney	Pelvis	Bacterium	Focal, Moderate
	Pelvis	Concretion	Multifocal, Mild
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung		Bacterium	Multifocal, Moderate
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Note: BACTERIUM TGLs = 6-4			
Lymph Node	Bronchial	Abscess	Focal, Marked
	Bronchial	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
	Iliac	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
	Mediastinal	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Note: INFILTRAT CELL TGLs = 5-3.1+4			
Note: INFILTRAT CELL TGLs = 4-15			
Mesentery		Abscess	Multifocal, Marked
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 7-5			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Thymus		Atrophy	Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 264

TRT#: 5

SEX: Female

DAY ON TEST: 645

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Multifocal, Moderate

Uterus

Abscess

Multifocal, Marked

Note: ABSCESS TGLs = 2-5

Note: CAUSE OF DEATH.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 265

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
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	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Esophagus

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
	Renal Tubule	Regeneration	Focal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Multifocal, Moderate
Note: HYPERPLASIA	TGLs = 4-15.1		
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Ovary		Abscess	Multifocal, Marked
		Cyst	Single, Mild
Note: ABSCESS	TGLs = 2-5		
Pancreas		Atrophy	Multifocal, Mild
		Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 265

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL	TGLs = 1-12		
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal
Note: HYPERPLASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 267

TRT#: 5

SEX: Female

DAY ON TEST: 705

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Thymus

AUTO PRECLUDES DIAG.

Gallbladder	Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Minimal Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Esophagus	Mucosa, Muscularis	Inflammation	Acute, Diffuse, Moderate
Kidney	Bilateral Renal Tubule	Abscess Bacterium	Multifocal, Mild Multifocal, Mild
Liver	Serosa	Hematopoietic Cell Proliferation Inflammation	Multifocal, Minimal Chronic, Focal, Moderate
Note: INFLAMMATION TGLs = 4-11			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Mesentery		Abscess	Multifocal, Marked
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15			
Note: CAUSE OF DEATH.			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Note: HEMA CELL PROL TGLs = 1-12			
Urinary Bladder		Abscess	Focal, Marked
Uterus		Abscess	Focal, Marked
Note: ABSCESS TGLs = 3-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 267

TRT#: 5

SEX: Female

DAY ON TEST: 705

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 268

TRT#: 5

SEX: Female

DAY ON TEST: 695

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	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	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Note: HEPATOCLR ADEN TGLs = 1-11			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal
Note: HYPERPLASIA TGLs = 2-6.1			

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 269

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
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	Salivary Glands
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney		Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Note: REGIONAL FOR UTERUS IS NORMAL.			
Nose	Olfactory Epi Glands Turbinate	Atrophy Hyperplasia Inflammation	Moderate Marked Acute, Multifocal, Minimal
Ovary		Cyst	Single, Minimal
Pituitary Gland		Adenoma	
Note: ADENOMA TGLs = 3-4			
Skin	Hair Follicle	Acanthosis Atrophy	Multifocal, Minimal Diffuse, Minimal
Note: ATROPHY TGLs = 1-15			
Spleen		Hyperplasia	Lymphoid, Diffuse, Minimal
Stomach	Forestomach	Acanthosis	Focal, Moderate
Note: ACANTHOSIS TGLs = 4-6			
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus		Polyp	
Note: POLYP TGLs = 2-15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 270	TRT#: 5 DOSE: VEHICLE CONTROL	SEX: Female DISP: Dead	DAY ON TEST: 693 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Glandular	Thyroid Gland	Trachea

MISSING			
Gallbladder	Intestine Large - Rectum	Islets, Pancreatic	Mammary Gland
Thymus			

AUTO PRECLUDES DIAG.			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Urinary Bladder		

OBSERVATIONS			
Adrenal Gland	Bilateral, Cortex	Hematopoietic Cell Proliferation	Multifocal, Minimal
	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney	Pelvis	Bacterium	Multifocal, Mild
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Renal	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Note: INFILTRAT CELL TGLs = 5-15			
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15			
Note: CAUSE OF DEATH.			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Stomach	Forestomach	Inflammation	Chronic, Focal, Moderate
Uterus		Abscess	Multifocal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 270

TRT#: 5

SEX: Female

DAY ON TEST: 693

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ABSCESS TGLs = 3-5+15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 272

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney		Inflammation	Chronic, Focal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Ovary		Cyst	Single, Marked
		Mineralization	Focal, Mild
Note: CYST TGLs = 2-5			
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Moderate
Note: DILATATION TGLs = 1-5			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 273

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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	Ovary	Pancreas
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea			

MISSING

Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Cortex, Spindle Cell	Cyst Hyperplasia	Multiple, Minimal Diffuse, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 274

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Mesenteric	Mammary Gland
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Intestine Large - Cecum	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Minimal
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Liver		Angiectasis	Multifocal, Mild
	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Note: ANGIECTASIS TGLs = 1-11			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Cyst	Single, Marked
Note: CYST TGLs = 2-5			
Pancreas	Duct	Inflammation	Chronic, Focal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA TGLs = 3-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 275 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 730
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Uterus		

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Moderate
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Diffuse, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 278

TRT#: 6

SEX: Female

DAY ON TEST: 580

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Kidney
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Bilateral, Cortex	Hyperplasia Vacuolization Cytoplasmic	Multifocal, Mild Diffuse, Mild
Gallbladder		Lymphoma Malignant Mixed	
Intestine Large	Cecum Colon	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Intestine Small	Jejunum	Lymphoma Malignant Mixed	
Note: CAUSE OF DEATH.			
Note: LYMPH MAL MIXD TGLs = 2-15			
Liver		Lymphoma Malignant Mixed	
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node	Mediastinal Mesenteric	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-1+15 [Lymphoma Malignant Mixed TGLS = 4-15]			
Mammary Gland		Lymphoma Malignant Mixed	
Nose	Olfactory Epi Turbinate Glands	Atrophy Hemorrhage Hyperplasia	Moderate Multifocal, Moderate Mild
Pancreas		Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-12			
Thymus		Atrophy	Diffuse, Moderate
Thyroid Gland		Ultimobranchial Cyst	
Trachea	Peritrach Tiss	Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 278

TRT#: 6

SEX: Female

DAY ON TEST: 580

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Dilatation

Moderate

Endometrium

Hyperplasia

Cystic, Multifocal, Mild

Note: DILATATION TGLs = 3-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 279

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea		

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Lymphoma Malignant Mixed Hepatocellular Carcinoma Lymphoma Malignant Mixed	
Note: HEPATOCLR CARC TGLs = 1-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node			
Note: REGIONAL TO HEPATOCLR CARC, LYMPH MAL MIXD.			
Nose	Olfactory Epi Turbinate Glands Turbinate Turbinate	Atrophy Exudate Hyperplasia Inflammation Inflammation	Moderate Mild Marked Acute, Multifocal, Mild Chronic, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Lymphoma Malignant Mixed	
Thyroid Gland		Adenoma	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 279

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 280 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 610
DOSE: 750 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
	Bilateral, Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Brain	Thalamus	Mineralization	Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Marked
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
Skeletal Muscle	Thigh	Sarcoma	
Note: CAUSE OF DEATH			
Note: [SARCOMA] TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 282 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 491
DOSE: VEHICLE CONTROL **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Mammary Gland	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland	Stomach - Glandular
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Mild
Nose	Olfactory Epi Glands Turbinate	Atrophy Hyperplasia Inflammation	Moderate Minimal Chronic, Multifocal, Mild
Ovary			
Note: ONLY ONE OVARY EXAMINED MICROSCOPICALLY			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 284

TRT#: 6

SEX: Female

DAY ON TEST: 642

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

MISSING

Lymph Node - Mesenteric

INSUFFICIENT TISSUE

Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell Cortex	Hyperplasia Hypertrophy	Diffuse, Mild Focal, Moderate
Brain	Ventricle	Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Moderate
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial Perivascular	Infiltration Cellular Infiltration Cellular	Lymphocyte, Multifocal, Minimal Lymphocyte, Multifocal, Moderate
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi Turbinate Glands Turbinate	Atrophy Foreign Body Hemorrhage Hyperplasia Inflammation	Moderate Moderate Diffuse, Moderate Minimal Chronic, Multifocal, Mild
Spleen		Pigmentation	Diffuse, Minimal
Thymus		Atrophy	Diffuse, Moderate
Uterus		Abscess	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 285 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 374
DOSE: 750 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Intestine Large - Colon Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Mineralization	Focal, Minimal
Kidney	Bilateral, Renal Tubule	Cyst	Multiple, Marked
		Mineralization	Multifocal, Minimal
Note: CYST TGLs = 1-15			
Note: CAUSE OF DEATH			
Nose	Olfactory Epi Glands	Atrophy	Marked
		Hyperplasia	Moderate
Spleen		Pigmentation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Mild
Ureter		Dilatation	Mild
Note: DILATATION TGLs = 2-15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 286

TRT#: 6

SEX: Female

DAY ON TEST: 693

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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	Pancreas
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Gallbladder	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Mild Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinates	Inflammation	Chronic, Multifocal, Minimal
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15 Note: CAUSE OF DEATH.			
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Urinary Bladder		Abscess	Focal, Minimal
Uterus		Inflammation	Acute, Diffuse, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 287

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Ovary
Pituitary Gland	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
		Inflammation	Acute, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Diffuse, Mild
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Marked
	Turbinates	Inflammation	Acute, Multifocal, Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Minimal
Pancreas	Duct	Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Marked

Note: DILATATION TGLs = 1-5

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 288

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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	Ovary
Pancreas	Pituitary Gland	Spleen	Stomach - Glandular
Trachea	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin		Inflammation	Chronic, Diffuse, Minimal
Note: NECK			
Note: INFLAMMATION	TGLs = 1-15		
Stomach	Forestomach	Acanthosis	Focal, Moderate
	Forestomach	Hyperkeratosis	Focal, Mild
	Forestomach	Inflammation	Chronic, Focal, Mild
Note: ACANTHOSIS	TGLs = 2-6		
Thymus		Atrophy	Diffuse, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 288

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Inflammation

Chronic, Focal, Mild

Urinary Bladder

Infiltration Cellular

Lymphocyte, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 289

TRT#: 6

SEX: Female

DAY ON TEST: 645

DOSE: 375 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Islets, Pancreatic	Kidney	Lymph Node - Mesenteric	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Minimal Diffuse, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Iliac Mandibular	Infiltration Cellular Infiltration Cellular	Plasma Cell, Diffuse, Moderate Plasma Cell, Diffuse, Moderate
Note: INFILTRAT CELL TGLs = 5-15			
Mammary Gland		Hyperplasia	Diffuse, Mild
Nose	Olfactory Epi	Atrophy Foreign Body	Moderate Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Focal, Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 6-15			
Note: CAUSE OF DEATH.			
Pancreas		Inflammation	Chronic, Diffuse, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 2-12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 289

TRT#: 6

SEX: Female

DAY ON TEST: 645

DOSE: 375 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Atrophy

Diffuse, Marked

Uterus

Abscess

Multifocal, Marked

Note: ABSCESS TGLs = 4-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 290 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 731
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	

MISSING

Esophagus	Intestine Large - Rectum	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney		Inflammation	Chronic, Focal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Mild
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Diffuse, Mild
Skin		Inflammation	Chronic, Diffuse, Minimal
Note: INFLAMMATION	TGLs = 1-15		
Note: NECK			
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Focal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 290

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 291

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	Bone Marrow
Esophagus	Gallbladder	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	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose		Foreign Body	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 295

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Trachea	Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Foreign Body	Minimal
	Glandular	Hyperplasia	Mild
Stomach		Inflammation	Acute, Focal, Minimal
Note: INFLAMMATION TGLs = 2-6			
Thymus		Atrophy	Diffuse, Moderate
Thyroid Gland	Follicle	Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 296

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Intestine Small	Jejunum, Peyers Patch	Hyperplasia	Lymphoid, Focal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinates	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
	Turbinates	Inflammation	Acute, Multifocal, Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Mild
Ovary		Cyst	Single, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 298

TRT#: 7

SEX: Female

DAY ON TEST: 615

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Liver	Lymph Node - Mesenteric	Mammary Gland	Ovary
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

AUTO PRECLUDES DIAG.

Gallbladder	Intestine Large - Cecum	Intestine Small - Ileum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Heart	Atrium Lft	Bacterium	Focal, Marked
	Myocardium	Inflammation	Chronic, Focal, Mild
	Atrium Lft	Thrombosis	
Note: CAUSE OF DEATH.			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Marked
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thymus		Atrophy	Diffuse, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 299

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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	Ovary
Pituitary Gland	Skin	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Gallbladder	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Renal Tubule	Degeneration	Focal, Moderate
	Bilateral	Inflammation	Chronic, Multifocal, Mild
Note: DEGEN	TGLs = 2-12		
Liver		Infiltration Cellular	Lymphocyte, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Pancreas		Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Stomach	Forestomach	Acanthosis	Focal, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Moderate

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 300

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Stomach - Glandular	Thymus
Thyroid Gland	Urinary Bladder		

MISSING

Intestine Large - Rectum	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Cecum, Lymphoid Nodul	Hyperplasia	Lymphoid, Focal, Mild
Kidney		Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi Glands Turbinat	Atrophy Hyperplasia Inflammation	Moderate Moderate Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin	Hair Follicle	Acanthosis Atrophy Inflammation	Multifocal, Minimal Diffuse, Mild Acute, Multifocal, Mild
Note: ATROPHY	TGLs = 1-15		
Spleen		Hyperplasia	Lymphoid, Diffuse, Minimal
Stomach	Forestomach Forestomach	Abscess Acanthosis	Focal, Mild Focal, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA	TGLs = 2-4		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 301 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 489
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Rectum	Kidney
Lung	Mammary Gland	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea		

MISSING

Gallbladder	Islets, Pancreatic	Pancreas
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mesenteric	Spleen	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Focal, Minimal
Liver	Serosa	Inflammation	Acute, Focal, Marked
Mesentery		Abscess	Multifocal, Marked
Note: CONTRIBUTORY TO DEATH			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
	Glands	Foreign Body	Minimal
	Turbinate	Hyperplasia	Mild
		Inflammation	Chronic, Multifocal, Minimal
Ovary			
Note: ONLY ONE OVARY EXAMINED MICROSCOPICALLY			
Thymus		Abscess	Focal, Marked
Uterus		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 3-15			
Note: CAUSE OF DEATH			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pituitary Gland	Skin
Stomach - Glandular	Thymus	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney		Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Mild
	Glands	Hyperplasia	Minimal
Ovary	Bilateral	Cyst	Multiple, Marked
Note: CYST TGLs = 1-5			
Pancreas		Inflammation	Chronic, Focal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Stomach	Forestomach	Inflammation	Chronic, Focal, Mild
Thyroid Gland		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 304

TRT#: 5

SEX: Female

DAY ON TEST: 638

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Diffuse, Minimal Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 4-4			
Mammary Gland		Hyperplasia	Diffuse, Mild
Mesentery		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-6+12+15			
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 3-15			
Pancreas		Abscess	Multifocal, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 305	TRT#: 5	SEX: Female	DAY ON TEST: 407
	DOSE: VEHICLE CONTROL	DISP: Moribund	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
Kidney	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Diffuse, Moderate Diffuse, Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Gallbladder		Inflammation	Acute, Diffuse, Moderate
Heart	Epicardium	Inflammation	Acute, Multifocal, Mild
Lymph Node	Inguinal	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Mesentery		Abscess	Multifocal, Marked
Nose		Foreign Body	Minimal
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH			
Pancreas		Inflammation	Acute, Diffuse, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Thymus		Atrophy	Diffuse, Minimal
Uterus		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach - Glandular
Thymus	Urinary Bladder		

MISSING

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Cyst	Single, Moderate
Note: CYST	TGLs = 2-5		
Pancreas		Inflammation	Chronic, Focal, Moderate
Skin		Acanthosis	Diffuse, Minimal
		Hyperkeratosis	Diffuse, Minimal
		Inflammation	Chronic, Diffuse, Minimal
Note: ACANTHOSIS	TGLs = 1-15		
Note: THORAX			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Cyst Epithelial Inclusion	Focal, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: HYPERPLASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 309 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 731
DOSE: 375 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Mild
Heart	Artery	Inflammation	Chronic, Focal, Moderate
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Alveolar Epith	Hyperplasia	Moderate
	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Diffuse, Moderate
Pituitary Gland		Hypertrophy	Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 310 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 598
DOSE: VEHICLE CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Mammary Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Mild Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Mild
Mesentery		Abscess	Multifocal, Marked
Nose	Olfactory Epi Turbinates	Atrophy Exudate Foreign Body	Moderate Mild Mild
	Glands Turbinates	Hyperplasia Inflammation	Minimal Chronic, Multifocal, Mild
Ovary		Abscess	Multifocal, Marked
Pancreas		Abscess	Multifocal, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Trachea	Peritrach Tiss	Abscess	Multifocal, Marked
Uterus		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 2-15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 311

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Moderate
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
		Hyperplasia	Reticulum Cell, Multifocal, Minimal
Thymus		Hyperplasia	Reticulum Cell, Focal, Moderate
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 313

TRT#: 7

SEX: Female

DAY ON TEST: 570

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Liver		Fatty Change	Diffuse, Moderate
Note: FATTY CHANGE TGLs = 1-11			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Acute, Multifocal, Moderate
Pancreas		Inflammation	Chronic, Focal, Minimal
Spleen		Pigmentation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 315

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus		Dilatation	Marked
	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: DILATATION TGLs = 1-15

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	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	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Uterus			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinates	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinates	Inflammation	Chronic, Focal, Minimal
	Turbinates	Inflammation	Acute, Multifocal, Minimal
Ovary	Germinal Epith	Hyperplasia	Focal, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Thyroid Gland		Hyperplasia	Multifocal, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 317

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Inflammation	Acute, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinates	Exudate	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinates	Inflammation	Chronic, Multifocal, Mild
Pituitary Gland		Hypertrophy	Focal, Minimal
Thyroid Gland		Inflammation	Chronic, Focal, Minimal
		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Moderate

Note: DILATATION TGLs = 1-5

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 318

TRT#: 5

SEX: Female

DAY ON TEST: 522

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Stomach - Forestomach	Thyroid Gland	Trachea
Uterus			

MISSING

Salivary Glands

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia Adenoma	Multifocal, Mild Diffuse, Moderate
Harderian Gland Note: ADENOMA TGLs = 6-15			
Heart	Epicardium	Inflammation	Acute, Diffuse, Moderate
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung		Abscess	Multifocal, Marked
	Pleura	Inflammation	Acute, Diffuse, Marked
Lymph Node	Mesenteric	Necrosis	Caseous, Diffuse, Marked
Mesentery Note: ABSCESS TGLs = 2-15		Abscess	Multifocal, Marked
Nose		Foreign Body	Minimal
Ovary Note: ABSCESS TGLs = 1-5 Note: CAUSE OF DEATH		Abscess	Focal, Marked
Skin Note: ATROPHY TGLs = 5-7	Hair Follicle	Atrophy	Diffuse, Moderate
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 318

TRT#: 5

SEX: Female

DAY ON TEST: 522

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 3-12 Note: HEMA CELL PROL TGLs = 4-12	Capsule	Inflammation	Chronic, Diffuse, Moderate
Stomach	Glandular	Inflammation	Acute, Focal, Moderate
Thymus	Mediastinum	Abscess	Focal, Moderate
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 319

TRT#: 5

SEX: Female

DAY ON TEST: 709

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Mild Diffuse, Mild
Bone	Femur	Fibrous Osteodystrophy	Diffuse, Mild
Bone Marrow		Myelofibrosis	Focal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Mild
Esophagus	Periesoph Tiss	Abscess	Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Infiltration Cellular	Lymphocyte, Focal, Moderate
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric Iliac	Hyperplasia Infiltration Cellular	Lymphoid, Focal, Minimal Plasma Cell, Diffuse, Moderate
[Hyperplasia TGLS = 5-15]			
Mesentery		Abscess	Multifocal, Marked
Nose	Turbinate	Foreign Body	Minimal
		Inflammation	Chronic, Multifocal, Minimal
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 3-15			
Note: CAUSE OF DEATH.			
Pancreas		Atrophy	Diffuse, Marked
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 319

TRT#: 5

SEX: Female

DAY ON TEST: 709

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 1-12

Thymus

Atrophy

Diffuse, Marked

Trachea

Inflammation

Chronic, Multifocal, Minimal

Urinary Bladder

Infiltration Cellular

Lymphocyte, Multifocal, Mild

Uterus

Dilatation

Mild

Note: DILATATION TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 320

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	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Ovary	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Heart	Epicardium	Inflammation	Chronic, Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Note: INFILTRAT CELL TGLs = 2-9+15			
Mammary Gland		Adenocarcinoma	
Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Minimal
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Skin		Acanthosis	Multifocal, Minimal
Note: ACANTHOSIS TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thyroid Gland	Follicle	Cyst	
Trachea		Inflammation	Chronic, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 320

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Uterus

Endometrium

Infiltration Cellular

Hyperplasia

Inflammation

Lymphocyte, Multifocal, Minimal

Cystic, Diffuse, Mild

Acute, Diffuse, Mild

Note: INFLAMMATION TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:29

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 321

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Liver		Hypertrophy	Focal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Uterus		Polyp	

Note: POLYP TGLs = 1-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 322

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Spleen
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Focal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Mild
Stomach	Forestomach	Abscess	Multifocal, Mild
	Forestomach	Acanthosis	Focal, Mild
Note: ABSCESS	TGLs = 2-6+15		
Note: ACANTHOSIS	TGLs = 2-15		
Thymus		Hyperplasia	Lymphoid, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:29

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 323

TRT#: 5

SEX: Female

DAY ON TEST: 483

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Liver	Lung	Mammary Gland	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Mesenteric	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Mild
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Nose	Turbinate	Exudate	Mild
		Foreign Body	Mild
Ovary		Cyst	Single, Moderate
Skin	Hair Follicle	Atrophy	Diffuse, Moderate
Note: ATROPHY	TGLs = 1-15		
Spleen		Pigmentation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 324

TRT#: 5

SEX: Female

DAY ON TEST: 610

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Liver
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
	Bilateral, Cortex	Vacuolization Cytoplasmic	Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Pleura	Foreign Body	Focal, Minimal
	Pleura	Granuloma	Focal, Minimal
Mesentery		Abscess	Focal, Moderate
Nose	Turbinate	Inflammation	Acute, Diffuse, Marked
Ovary		Cyst	Multiple, Moderate
Note: CYST	TGLs = 2-5		
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thymus		Atrophy	Diffuse, Marked
Thyroid Gland		Ultimobranchial Cyst	
Uterus		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 325 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 312
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	Bone	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Pancreas	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Brain	Gallbladder	Intestine Large - Rectum	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Thyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Medulla Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hematopoietic Cell Proliferation Hyperplasia	Diffuse, Moderate Focal, Mild Diffuse, Mild
Note: ONLY ONE MEDULLA EXAMINED			
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Heart	Myocardium	Inflammation	Acute, Diffuse, Moderate
Kidney	Bilateral	Hematopoietic Cell Proliferation	Diffuse, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Mammary Gland		Inflammation	Acute, Marked
Mesentery		Abscess	Multifocal, Marked
Note: CONTRIBUTORY TO DEATH			
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: CAUSE OF DEATH			
Note: ABSCESS TGLs = 2-5			
Oviduct		Inflammation	Acute, Diffuse, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
Note: HEMA CELL PROL TGLs = 1-12			
Thymus		Atrophy	Diffuse, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 326	TRT#: 5	SEX: Female	DAY ON TEST: 565
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	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	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Lung		Congestion	Multifocal, Minimal
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Nasolacrim Dct	Exudate	Diffuse, Mild
Ovary		Cyst	Single, Minimal
Pancreas	Duct	Dilatation	Marked
		Necrosis	Multifocal, Mild
Spleen		Pigmentation	Diffuse, Mild
Thymus		Atrophy	Diffuse, Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 327 **TRT#:** 7 **SEX:** Female **DAY ON TEST:** 690
DOSE: 750 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Rectum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Uterus			

MISSING

Thymus

AUTO PRECLUDES DIAG.

Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 3-15			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Marked
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Chronic, Diffuse, Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
Ovary		Cyst	Single, Mild
Skin	Hair Follicle	Atrophy	Multifocal, Mild
Note: ATROPHY TGLs = 1-15			
Spleen		Pigmentation	Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Ovary	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Inflammation	Acute, Focal, Mild
Heart	Artery	Inflammation	Chronic, Focal, Moderate
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Diffuse, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Mild
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinates	Exudate	Mild
		Foreign Body	Moderate
	Glands	Hyperplasia	Mild
	Turbinates	Inflammation	Chronic, Diffuse, Moderate
	Turbinates	Inflammation	Acute, Multifocal, Minimal
Pancreas	Duct	Inflammation	Chronic, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Skin			
Note: FACE AND ABDOMEN			
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Infiltration Cellular

Lymphocyte, Multifocal, Mild

Uterus

Endometrium

Hyperplasia

Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 329

TRT#: 5

SEX: Female

DAY ON TEST: 436

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Brain
Esophagus	Gallbladder	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
Pituitary Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Mild Multifocal, Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
	Serosa	Inflammation	Acute, Multifocal, Marked
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Mesentery		Abscess	Multifocal, Marked
Nose	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Focal, Minimal
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: CONTRIBUTORY TO DEATH			
Note: ABSCESS TGLs = 3-15			
Pancreas		Inflammation	Acute, Diffuse, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate
	Capsule	Inflammation	Acute, Multifocal, Marked
Note: INFLAMMATION TGLs = 2-12+15			
Thymus		Atrophy	Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	
Uterus		Abscess	Multifocal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:29

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 329

TRT#: 5

SEX: Female

DAY ON TEST: 436

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CAUSE OF DEATH

Note: ABSCESS TGLs = 4-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 331

TRT#: 5

SEX: Female

DAY ON TEST: 579

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
	Bilateral, Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Brain	Ventricle	Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 2-10+15		
Note: CAUSE OF DEATH.			
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Mammary Gland		Hyperplasia	Diffuse, Mild
Nose	Olfactory Epi	Atrophy	Mild
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Ovary		Cyst	Single, Mild
Note: CYST	TGLs = 1-5		
Spleen		Depletion Lymphoid	Diffuse, Mild
Thymus		Atrophy	Diffuse, Marked
Uterus		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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	Pancreas
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Gallbladder		Infiltration Cellular	Lymphocyte, Focal, Moderate
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Mesentery		Inflammation	Granulomatous, Multifocal, Moderate
Note: TISSUE INADVERTANTLY TAKEN AS MESENTERIC LYMPH NODE			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Minimal
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Ovary		Cyst	Single, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Trachea		Inflammation	Chronic, Focal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 334

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Moderate
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Moderate Mild
Ovary		Cyst	Single, Mild
Note: CYST	TGLs = 2-5		
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Thyroid Gland	Follicle	Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus		Dilatation	Mild
Note: DILATATION	TGLs = 1-15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 335

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Diffuse, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Diffuse, Moderate
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Minimal
Spleen		Hyperplasia	Lymphoid, Diffuse, Minimal
Stomach	Forestomach	Cyst Epithelial Inclusion	Focal, Minimal
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 337

TRT#: 5

SEX: Female

DAY ON TEST: 670

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Liver	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Thyroid Gland	Trachea		

MISSING

Gallbladder	Islets, Pancreatic	Mammary Gland	Thymus
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AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Glandular
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral, Pelvis	Bacterium	Multifocal, Moderate
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Artery, Media	Hypertrophy	Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Diffuse, Mild
Nose	Olfactory Epi	Atrophy	Minimal
		Foreign Body	Mild
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 1-15		
Note: CAUSE OF DEATH.			
Skeletal Muscle		Inflammation	Acute, Diffuse, Marked
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Uterus		Abscess	Multifocal, Marked
Note: ABSCESS	TGLs = 2-5		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 338

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
Nose	Olfactory Epi Glands Turbinate	Atrophy Hyperplasia Inflammation	Moderate Moderate Acute, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Skin	Hair Follicle	Acanthosis Atrophy Inflammation	Multifocal, Minimal Diffuse, Minimal Chronic, Diffuse, Minimal
Note: ACANTHOSIS	TGLs = 1-15		
Spleen		Hyperplasia	Lymphoid, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal
Uterus		Dilatation	Mild
Note: DILATATION	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 341 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 565
DOSE: 375 MG/KG **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Gallbladder	Parathyroid Gland	Thymus
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Focal, Mild Multifocal, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hepatocellular Carcinoma	
Note: CAUSE OF DEATH. Note: HEPATOCLR CARC TGLs = 2-15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Olfactory Epi Glands	Atrophy Hyperplasia	Moderate Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Moderate
Note: DILATATION TGLs = 3-15			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 342

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Pituitary Gland	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node			
Note: REGIONAL TO ADENOCARC IS NORMAL.			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-15			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinates	Inflammation	Acute, Multifocal, Mild
Ovary		Cyst	Single, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus		Dilatation	Mild
	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 343

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
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	Pituitary Gland	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland	Ovary
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver	Hepatocyte	Focal Cellular Change	Mild
		Infiltration Cellular	Lymphocyte, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Alveolus	Inflammation	Acute, Focal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Moderate
	Turbinates	Inflammation	Acute, Multifocal, Minimal
	Turbinates	Inflammation	Chronic, Multifocal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Stomach	Glandular	Inflammation	Acute, Focal, Mild
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Mild
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 346

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Pancreatic	Leiomyosarcoma	Metastatic (Uterus)
Nose	Olfactory Epi Glands	Atrophy	Moderate
	Turbinate	Hyperplasia	Moderate
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Skin		Inflammation	Acute, Multifocal, Minimal
Note: ACANTHOSIS	TGLs = 1-7	Acanthosis	Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild
Note: LEIOMYOMA	TGLs = 2-15	Leiomyosarcoma	
Note: HYPERPLASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 348 TRT#: 6 SEX: Female DAY ON TEST: 659
DOSE: 375 MG/KG DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Glandular	Thyroid Gland	Trachea	

MISSING

Mammary Gland	Salivary Glands	Stomach - Forestomach
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Multifocal, Minimal
	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Mild
	Renal	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Note: INFILTRAT CELL TGLs = 2-15			
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinates	Inflammation	Chronic, Multifocal, Mild
	Turbinates	Inflammation	Acute, Multifocal, Minimal
Ovary		Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Note: ABSCESS TGLs = 4-15			
Skin	Hair Follicle	Atrophy	Diffuse, Minimal
Note: ATROPHY TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 375 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Atrophy

Diffuse, Moderate

Urinary Bladder

Infiltration Cellular

Lymphocyte, Multifocal, Mild

Uterus

Endometrium

Hyperplasia

Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
 Time Report Requested: 03:39:29
 First Dose M/F: NA / NA
 Lab: IRDC

ANIMAL ID: 349 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 676
DOSE: VEHICLE CONTROL **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Uterus

MISSING

Gallbladder	Parathyroid Gland	Pituitary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney		Lymphoma Malignant Lymphocytic	
Liver		Lymphoma Malignant Lymphocytic	
Note: CAUSE OF DEATH.			
Note: LYMPH MAL LYMP TGLs = 2-11+15			
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lymph Node	Mediastinal, Mesenteric, Renal	Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 3-1+15			
[Lymphoma Malignant Lymphocytic TGLs = 4-15]			
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Turbinate	Exudate	Minimal
		Foreign Body	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Mild
Pancreas		Lymphoma Malignant Lymphocytic	
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
		Lymphoma Malignant Lymphocytic	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 350

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
Esophagus	Gallbladder	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
Pancreas	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Moderate
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Mild
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Moderate
Note: HYPERPLASIA TGLs = 1-15			
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinates	Exudate	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Minimal
	Turbinates	Inflammation	Chronic, Diffuse, Moderate
Ovary		Cyst	Single, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Minimal
Thymus		Hyperplasia	Lymphoid, Multifocal, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal
Note: HYPERPLASIA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 351 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 379
DOSE: 375 MG/KG **DISP:** Accident **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Islets, Pancreatic	Kidney
Liver	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Gallbladder Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Minimal
Brain	Thalamus	Hemorrhage	Multifocal, Moderate
Note: HEMORRHAGE TGLs = 4-10			
Note: CAUSE OF DEATH			
Intestine Small	Jejunum, Peyers Patch	Hyperplasia	Lymphoid, Multifocal, Minimal
Lung		Hemorrhage	Diffuse, Marked
Nose	Olfactory Epi	Atrophy	Minimal
	Turbinate	Foreign Body	Minimal
	Glands	Hemorrhage	Diffuse, Moderate
		Hyperplasia	Minimal
Skin			
Note: HEAD			
Spleen		Pigmentation	Diffuse, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 352

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Thymus		

OBSERVATIONS

Adrenal Gland	Cortex	Cyst	Single, Minimal
	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Gallbladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver	Bile Duct	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Turbinates	Inflammation	Chronic, Multifocal, Mild
Ovary	Bilateral	Cyst	Multiple, Moderate
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Stomach	Glandular	Inflammation	Chronic, Focal, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Trachea		Inflammation	Chronic, Diffuse, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Marked
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Marked

Note: HYPERPLASIA TGLs = 1-5

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 353	TRT#: 5	SEX: Female	DAY ON TEST: 420
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Pancreas	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Blood Vessel	Aorta, Media	Mineralization	Diffuse, Mild
Bone	Femur	Fibrous Osteodystrophy	Diffuse, Mild
Note: INCREASED OSTEOCLASTIC ACTIVITY			
Heart	Epicardium	Inflammation	Acute, Multifocal, Mild
Kidney	Bilateral	Glomerulosclerosis	Diffuse, Marked
	Bilateral	Inflammation	Chronic, Diffuse, Moderate
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Diffuse, Mild
Mammary Gland		Hyperplasia	Diffuse, Mild
Nose		Foreign Body	Minimal
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 1-15			
Note: CAUSE OF DEATH			
Spleen		Hematopoietic Cell Proliferation	Diffuse, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 354

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Ovary	Pancreas
Salivary Glands	Spleen	Stomach - Glandular	Thymus
Thyroid Gland	Urinary Bladder	Uterus	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Gallbladder		Inflammation	Acute, Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney		Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Marked
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Diffuse, Moderate
Pituitary Gland		Hypertrophy	Focal, Minimal
Stomach	Forestomach	Acanthosis	Focal, Minimal
Trachea		Inflammation	Chronic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Spleen	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Note: INTRAEPITHELIAL AT ANORECTAL JUNCTION			
Kidney		Inflammation	Chronic, Multifocal, Mild
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Multifocal, Mild
	Mandibular	Infiltration Cellular	Plasma Cell, Diffuse, Minimal
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Marked
		Foreign Body	Minimal
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Diffuse, Mild
Skin		Acanthosis	Multifocal, Minimal
		Hyperkeratosis	Focal, Minimal
Note: ABDOMEN IS NORMAL			
Note: ACANTHOSIS TGLs = 1-15			
Stomach	Forestomach	Acanthosis	Focal, Mild
	Forestomach	Hyperkeratosis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 375 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ACANTHOSIS	TGLs = 3-15	Forestomach	Inflammation	Chronic, Focal, Mild
Thyroid Gland			Ultimobranchial Cyst	
Uterus		Endometrium	Hyperplasia	Cystic, Diffuse, Moderate
Note: HYPERPLASIA	TGLs = 2-5			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Gallbladder	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	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Thyroid Gland			

MISSING

Stomach - Forestomach

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Exudate	Moderate
		Foreign Body	Mild
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Acute, Multifocal, Minimal
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Stomach	Glandular	Inflammation	Acute, Multifocal, Minimal
Thymus		Atrophy	Diffuse, Marked
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CAUSE OF DEATH UNKNOWN.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 360

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Mammary Gland	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Kidney		Inflammation	Chronic, Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Nose	Olfactory Epi	Atrophy	Moderate
	Turbinates	Exudate	Mild
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinates	Inflammation	Acute, Multifocal, Minimal
Ovary		Cyst	Single, Mild
Note: CYST	TGLs = 2-5		
Pancreas		Atrophy	Focal, Mild
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Skin		Acanthosis	Multifocal, Minimal
Note: ACANTHOSIS	TGLs = 1-15		
Spleen		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Cystic, Multifocal, Mild
Note: HYPERPLASIA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 597

DOSE: 375 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea			

AUTO PRECLUDES DIAG.

Gallbladder	Intestine Small - Duodenum
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OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Brain	Cerebrum, Meninges	Abscess	Multifocal, Marked
Note: CAUSE OF DEATH.			
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Nose	Olfactory Epi	Atrophy	Marked
	Turbinate	Exudate	Mild
		Foreign Body	Mild
	Glands	Hyperplasia	Mild
	Turbinate	Inflammation	Chronic, Multifocal, Moderate
Thyroid Gland		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Uterus		Dilatation	Moderate
Note: DILATATION TGLs = 1-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 363 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 729
DOSE: 375 MG/KG **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 Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex, Spindle Cell	Hyperplasia	Multifocal, Mild
Heart	Atrium Lft	Thrombosis	Moderate
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-11			
Lung		Lymphoma Malignant Mixed	
Mammary Gland		Hyperplasia	Diffuse, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
		Foreign Body	Minimal
	Glands	Hyperplasia	Moderate
	Turbinate	Inflammation	Chronic, Focal, Mild
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-12			
Stomach	Forestomach	Hyperkeratosis	Focal, Moderate
Note: HYPERKERATOSIS TGLs = 4-15			
Thymus		Atrophy	Diffuse, Moderate
Thyroid Gland		Ultimobranchial Cyst	
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 364

TRT#: 5

SEX: Female

DAY ON TEST: 708

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Trachea		

MISSING

Intestine Large - Rectum	Parathyroid Gland	Thymus
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AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex Bilateral, Cortex, Spindle Cell	Hematopoietic Cell Proliferation Hyperplasia	Multifocal, Minimal Diffuse, Mild
Brain	Bilateral, Thalamus	Mineralization	Multifocal, Minimal
Kidney	Renal Tubule Left	Degeneration Hydronephrosis Inflammation	Focal, Moderate Mild Chronic, Multifocal, Mild
Note: HYDRONEPHROSIS TGLs = 2-12			
Liver		Hematopoietic Cell Proliferation	Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Mammary Gland		Hyperplasia	Diffuse, Mild
Mesentery		Abscess	Multifocal, Marked
Nose	Turbinates	Foreign Body Inflammation	Minimal Acute, Diffuse, Minimal
Ovary		Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 1-15			
Note: CAUSE OF DEATH.			
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Thyroid Gland		Ultimobranchial Cyst	
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 03:39:29

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 364

TRT#: 5

SEX: Female

DAY ON TEST: 708

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Cystic, Diffuse, Mild

Note: CYST TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 365

TRT#: 7

SEX: Female

DAY ON TEST: 730

DOSE: 750 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Intestine Large	Rectum	Inflammation	Acute, Focal, Minimal
Kidney	Bilateral	Inflammation	Chronic, Multifocal, Mild
Liver		Infiltration Cellular	Lymphocyte, Multifocal, Mild
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi Glands Turbinates	Atrophy Hyperplasia Inflammation	Moderate Moderate Acute, Multifocal, Minimal
Salivary Glands		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Skin		Acanthosis	Multifocal, Minimal
	Hair Follicle	Atrophy	Diffuse, Minimal
Note: ATROPHY	TGLs = 1-15		
Spleen		Hyperplasia	Lymphoid, Diffuse, Mild
Trachea		Inflammation	Chronic, Multifocal, Minimal
Urinary Bladder		Infiltration Cellular	Lymphocyte, Multifocal, Moderate
Uterus	Endometrium	Hyperplasia	Cystic, Diffuse, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 366

TRT#: 7

SEX: Female

DAY ON TEST: 539

DOSE: 750 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Inflammation	Chronic, Focal, Minimal
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PRIMARY CAUSE OF DEATH

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Animal Note: CAUSE OF DEATH UNKNOWN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:29
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 367

TRT#: 7

SEX: Female

DAY ON TEST: 692

DOSE: 750 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood Vessel	Bone	Bone Marrow
Esophagus	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	Pancreas
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Gallbladder

OBSERVATIONS

Adrenal Gland	Bilateral, Cortex, Spindle Cell	Hyperplasia	Diffuse, Mild
Brain	Thalamus	Mineralization	Multifocal, Minimal
Kidney	Pelvis	Bacterium	Multifocal, Minimal
	Bilateral	Inflammation	Chronic, Multifocal, Minimal
Liver		Hematopoietic Cell Proliferation	Multifocal, Minimal
Lung	Peribronchial	Infiltration Cellular	Lymphocyte, Multifocal, Minimal
Nose	Olfactory Epi	Atrophy	Moderate
	Glands	Hyperplasia	Moderate
	Turbinates	Inflammation	Chronic, Multifocal, Mild
Ovary	Bilateral	Abscess	Multifocal, Marked
Note: ABSCESS TGLs = 2-15			
Note: CAUSE OF DEATH.			
Salivary Glands		Infiltration Cellular	Lymphocyte, Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Diffuse, Mild
Note: HEMA CELL PROL TGLs = 1-12			
Thymus		Atrophy	Diffuse, Marked
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05032-02
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 10/22/2014
Time Report Requested: 03:39:30
First Dose M/F: NA / NA
Lab: IRDC

ANIMAL ID: 368	TRT#: 6	SEX: Female	DAY ON TEST: 2
	DOSE: 375 MG/KG	DISP: Accident	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	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	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Blood Vessel	Gallbladder	Parathyroid Gland	Thyroid Gland
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OBSERVATIONS

Esophagus	Perforation	Focal, Marked
Note: PERFORATION TGLs = 1 - 2		
Note: CAUSE OF DEATH		

PRIMARY CAUSE OF DEATH -

**** END OF REPORT ****