

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 02:50:12  
**First Dose M/F:** NA / NA  
**Lab:** IRDC

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

Experiment Number: 05032-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: D-Carvone

CAS Number: 2244-16-8

Date Report Requested: 10/22/2014

Time Report Requested: 02:50:12

First Dose M/F: NA / NA

Lab: IRDC

DAY ON TEST

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

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: D-Carvone  
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014  
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First Dose M/F: NA / NA  
Lab: IRDC

DAY ON TEST

F 344/N Rat Male  
VEHICLE CONTROL

ANIMAL ID

\*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

0

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**Experiment Number:** 05032-01  
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**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** D-Carvone  
**CAS Number:** 2244-16-8

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 02:50:13  
**First Dose M/F:** NA / NA  
**Lab:** IRDC

DAY ON TEST

**F 344/N Rat Male**  
**187MG/KG**

ANIMAL ID

\*TOTALS

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**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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X ..Lesion present  
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M ..Missing tissue  
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Experiment Number: 05032-01  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: Rat/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

Date Report Requested: 10/22/2014  
Time Report Requested: 02:50:13  
First Dose M/F: NA / NA  
Lab: IRDC

DAY ON TEST

**F 344/N Rat Male**  
**187MG/KG**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

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**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** D-Carvone  
**CAS Number:** 2244-16-8

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 02:50:13  
**First Dose M/F:** NA / NA  
**Lab:** IRDC

DAY ON TEST

**F 344/N Rat Male**  
**375MG/KG**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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Experiment Number: 05032-01  
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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA  
Lab: IRDC

DAY ON TEST

F 344/N Rat Male  
375MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 02:50:13  
**First Dose M/F:** NA / NA  
**Lab:** IRDC

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

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

**Alimentary System**

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

**Cardiovascular System**

Blood Vessel																																								
Heart																																								

**Endocrine System**

Adrenal Gland, Cortex																																								
Adenoma																																								
Adrenal Gland, Medulla																																								
Pheochromocytoma Benign																																								

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Experiment Number: 05032-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: CHRONIC

Test Compound: D-Carvone

Time Report Requested: 02:50:13

Route: GAVAGE

CAS Number: 2244-16-8

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: IRDC

DAY ON TEST	ANIMAL ID																															
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>F 344/N Rat Female</b>	4	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
<b>VEHICLE CONTROL</b>	8	5	8	5	8	8	9	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3		
	6	6	9	7	1	3	3	4	1	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
	2	4	2	2	3	2	3	3	4	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	2	2	
	5	1	6	5	9	9	7	1	0	4	4	6	6	6	7	9	0	2	4	7	7	8	8	9	0	1	1	2	4	5		
	2	2	0	6	3	8	1	7	9	1	2	1	4	8	9	0	9	3	5	5	6	8	2	4	4	5	4	6	0	4	0	
Kidney																																
Urinary Bladder																																
<b>SYSTEMIC LESIONS</b>																																
Multiple Organ																																
Leukemia Mononuclear																																

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 Route: GAVAGE  
 Species/Strain: Rat/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: D-Carvone  
 CAS Number: 2244-16-8

Date Report Requested: 10/22/2014  
 Time Report Requested: 02:50:13  
 First Dose M/F: NA / NA  
 Lab: IRDC

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

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+											14
Intestine Large, Cecum	+	+	+	+	+	+	+	+											14
Intestine Large, Colon	+	+	+	+	+	+	+	+											14
Intestine Large, Rectum	+	I	+	+	I	+	+	+											9
Intestine Small, Duodenum	+	+	+	+	+	+	+	+											14
Intestine Small, Ileum	+	+	+	+	+	+	+	+											14
Intestine Small, Jejunum	+	+	+	+	+	+	+	+											14
Liver	+	+	+	+	+	+	+	+											14
Pancreas	+	+	+	+	+	+	+	+											14
Salivary Glands	+	+	+	+	+	+	+	+											14
Stomach, Forestomach	+	+	+	+	+	+	+	+											14
Stomach, Glandular	+	+	+	+	+	+	+	+											14

**Cardiovascular System**

Blood Vessel	+	+	+		+		+	M											10
Heart	+	+	+	+	+	+	+	+											14

**Endocrine System**

Adrenal Gland, Cortex	+	+	+	+	+	+	+	+											14
Adenoma				X															1
Adrenal Gland, Medulla	+	M	+	+	+	+	+	+											13
Pheochromocytoma Benign			X																1

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Experiment Number: 05032-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: CHRONIC

Test Compound: D-Carvone

Time Report Requested: 02:50:14

Route: GAVAGE

CAS Number: 2244-16-8

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: IRDC

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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
	7	0	0	1	1	1	3	4	4	4	4	6	7	8	8	9	1	1	3
	6	7	8	0	3	5	8	2	3	7	8	8	4	3	8	7	3	5	1
	<b>*TOTALS</b>																		
Islets, Pancreatic	+	+	+	+	+	+	+	+											14
Parathyroid Gland	+	+	+	+	+	+	+	M											13
Pituitary Gland	+	+	+	+	+	+	+	+											14
Pars Distalis, Adenoma					X	X		X											7
Thyroid Gland	+	+	+	+	+	+	+	+											14
C Cell, Adenoma							X	X											3
Follicular Cel, Adenoma																			1
<b>General Body System</b>																			
NONE																			
<b>Genital System</b>																			
Clitoral Gland	+	+	+	+	+	+	+	+											13
Adenoma					X														1
Ovary	+	+	+	+	+	+	+	+											14
Uterus	+	+	+	+	+	+	+	+											14
Polyp						X													1
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	M	+	+	+	+											13
Lymph Node																			1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+											13
Spleen	+	+	+	+	+	+	+	+											14
Thymus	+	+	+	+	+	+	+	+											12

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+ ..Tissue examined microscopically

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I ..Insufficient tissue

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: D-Carvone  
 CAS Number: 2244-16-8

Date Report Requested: 10/22/2014  
 Time Report Requested: 02:50:14  
 First Dose M/F: NA / NA  
 Lab: IRDC

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

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

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+												14
Adenocarcinoma											X									1
Adenoma																				1
Fibroadenoma	X						X	X												6
Skin	+	+	+	+	+	+	+	+	+											14

**Musculoskeletal System**

Bone	+	+	+	M	+	+	+	+												13
------	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	----

**Nervous System**

Brain	+	+	+	+	+	+	+	+												14
Peripheral Nerve	+	+	M	+	+	+	+	+												13

**Respiratory System**

Lung	+	+	+	+	+	+	+	+												14
Nose	+	+	+	+	+	+	+	+												14
Trachea	+	+	+	+	+	+	+	+												14

**Special Senses System**

Eye			+		+															2
Zymbal's Gland							+													1

**Urinary System**

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Experiment Number: 05032-01

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/22/2014

Test Type: CHRONIC

Test Compound: D-Carvone

Time Report Requested: 02:50:14

Route: GAVAGE

CAS Number: 2244-16-8

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: IRDC

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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4
	7	0	0	1	1	1	3	4	4	4	4	6	7	8	8	9	1	1	3
	6	7	8	0	3	5	8	2	3	7	8	8	4	3	8	7	3	5	1
	<b>*TOTALS</b>																		
Kidney	+																		14
Urinary Bladder	+																		13
<b>SYSTEMIC LESIONS</b>																			
Multiple Organ	+																		14
Leukemia Mononuclear		X		X	X														3

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

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**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 02:50:14  
**First Dose M/F:** NA / NA  
**Lab:** IRDC

DAY ON TEST

**F 344/N Rat Female**  
**187MG/KG**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: D-Carvone  
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014  
Time Report Requested: 02:50:14  
First Dose M/F: NA / NA  
Lab: IRDC

DAY ON TEST

F 344/N Rat Female  
187MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

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

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** D-Carvone  
**CAS Number:** 2244-16-8

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 02:50:14  
**First Dose M/F:** NA / NA  
**Lab:** IRDC

DAY ON TEST

**F 344/N Rat Female**  
**375MG/KG**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: D-Carvone  
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014  
Time Report Requested: 02:50:14  
First Dose M/F: NA / NA  
Lab: IRDC

DAY ON TEST

F 344/N Rat Female  
375MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

0

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

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

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