

Experiment Number: 91070 - 01
Test Type: 28-DAY
Route: GAVAGE
Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 02/06/2018
Time Report Requested: 12:35:28
First Dose M/F: 01/31/12 / 02/01/12
Lab: BAT

PFOA_Final 1

NTP Study Number: C91070B
Lock Date: 04/25/2016
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS MALE	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2
	9	9	9	9	9	9	9	9	9	9	9
	<hr/>										
0 mg/kg/d M	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	5
	5	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0	
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell			1		1			1	1		4 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
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* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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

Heart	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1									
10										
1 1.0										

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+
10										

GENERAL BODY SYSTEM

NONE										
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GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+
Prostate	+	+	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+
10										

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg/d M	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		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	
		5	5	5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	
* TOTALS											

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hypocellularity		1									1 1.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
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NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
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RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Granulomatous		1									1 1.0

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0.625 mg/kg/d M	DAY ON TEST	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
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		1	2	3	4	5	6	7	8	9	0								
* TOTALS																			

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+									
Hepatocyte, Cytoplasmic Alteration							1	1	1	1									
Pancreas	+	+	+	+	+	+	+	+	+	+									
Stomach, Forestomach																			
Mucosa, Hyperplasia																			

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+									
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+									
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HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+									
-------------	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 1.25 mg/kg/d M	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	2	
		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	
		5	5	5	5	5	5	5	5	5	5	
		7	7	7	7	7	7	7	7	7	8	
		1	2	3	4	5	6	7	8	9	0	
* TOTALS												

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mixed Cell			1		1		1					3 1.0
Hepatocyte, Cytoplasmic Alteration	1			1	1	1	1	1	1	1		9 1.0
Hepatocyte, Hypertrophy				1		1	1	1	1	1		6 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	10
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HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Angiectasis	2											1 2.0

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS MALE	2	2	2	2	2	2	2	2	2	2
1.25 mg/kg/d M	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
	5	5	5	5	5	5	5	5	5	5
	7	7	7	7	7	7	7	7	8	8
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+	10
Respiratory Epithelium, Hyperplasia										1	2 1.0
Respiratory Epithelium, Inflammation, Chronic Active										1	3 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive										2	3 1.3

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS MALE 2.5 mg/kg/d M	ANIMAL ID	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2			0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9			5	5	5	5	5	5	5	5	5
													8	8	8	8	8	8	8	8	9
													1	2	3	4	5	6	7	8	9
											* TOTALS										

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Hepatocyte, Cytoplasmic Alteration	2	2	1	1	1	1	1	1	1	2	10	1.3
Hepatocyte, Hypertrophy	2	2	2	1	2	2	2	2	1	2	10	1.8
Pancreas	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	10	

HEMATOPOIETIC SYSTEM

Bone Marrow		+	+	+	+	+	+	+	+	+	9	
-------------	--	---	---	---	---	---	---	---	---	---	----------	--

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
HARLAN SPRAGUE DAWLEY RATS MALE	2	2	2	2	2	2	2	2	2	2			
2.5 mg/kg/d M	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			
	5	5	5	5	5	5	5	5	5	5			
	8	8	8	8	8	8	8	8	8	8			
	1	2	3	4	5	6	7	8	9	0			
	* TOTALS												
Spleen	+	+	+	+	+	+	+	+	+	+			10
Thymus	+	+	+	+	+	+	+	+	+	+			10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+			10	
Respiratory Epithelium, Hyperplasia						2		1		1			3	1.3
Respiratory Epithelium, Inflammation, Chronic Active						1		1					2	1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+			10	
Nephropathy, Chronic Progressive				1	1		1	1	1	1			6	1.0

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 5 mg/kg/d M	DAY ON TEST	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
		2	2	2	2	2	2	2	2	2	2	2	2	2	2
		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
		5	5	5	5	5	5	5	5	5	5	5	5	5	6
		9	9	9	9	9	9	9	9	9	9	9	9	9	0
		1	2	3	4	5	6	7	8	9	0	0	0	0	0
* TOTALS															

ALIMENTARY SYSTEM

Intestine Large, Cecum	M														0		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
Hepatocyte, Cytoplasmic Alteration	2	1	2	2	3	2	2	3	2	3	2	3				10	2.2
Hepatocyte, Hypertrophy	2	2	3	3	3	2	2	3	2	3						10	2.5
Hepatocyte, Necrosis, Focal			1													1	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
Hypospermia															2	1	2.0
Duct, Exfoliated Germ Cell															2	1	2.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	

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X .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 5 mg/kg/d M	DAY ON TEST	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
		2	2	2	2	2	2	2	2	2	2	2	2	2
		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
		5	5	5	5	5	5	5	5	5	5	5	6	6
		9	9	9	9	9	9	9	9	9	9	9	0	0
		1	2	3	4	5	6	7	8	9	9	0	0	0
													* TOTALS	

Germinal Epithelium, Degeneration

2

1 2.0

HEMATOPOIETIC SYSTEM

Bone Marrow
Hypocellularity

+ + + + + + + + + +
1 1

10
2 1.0

Spleen

+ + + + + + + + + +

10

Thymus

+ + + + + + + + + +

10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose
Respiratory Epithelium, Hyperplasia
Respiratory Epithelium, Inflammation, Chronic
Active

+ + + + + + + + + +
2 1 1 1 2
1 1 1 1 1

10
5 1.4
5 1.0

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 5 mg/kg/d M	DAY ON TEST	0	0	0	0	0	0	0	0	0	* TOTALS
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		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	
		5	5	5	5	5	5	5	5	6	
		9	9	9	9	9	9	9	9	0	
		1	2	3	4	5	6	7	8	9	

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive	1		1	1	1	1	1	1	1	1	9 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS MALE	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2
	9	9	9	9	9	9	9	9	9	9	9
	<hr/>										
10 mg/kg/d M	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	0	1
<hr/>											
										* TOTALS	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mixed Cell					1							1 1.0
Hepatocyte, Cytoplasmic Alteration	2	2	3	4	3	2	2	2	2	4		10 2.6
Hepatocyte, Hypertrophy	2	3	4	4	3	3	3	3	3	4		10 3.2
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mixed Cell					1							1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	HARLAN SPRAGUE DAWLEY RATS MALE	0	0	0	0	0	0	0	0	0
10 mg/kg/d M	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	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
	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	M	+	+	+	+	M	8
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Follicular Cell, Hypertrophy						1			1	1	3 1.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Hypospermia									2		1 2.0
Duct, Exfoliated Germ Cell									2		1 2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
HARLAN SPRAGUE DAWLEY RATS MALE	2	2	2	2	2	2	2	2	2	2	
	9	9	9	9	9	9	9	9	9	9	
10 mg/kg/d M	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	6	6	6	6	6	6	6	6	6	6	
	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Germinal Epithelium, Degeneration									1		1 1.0
Sertoli Cell, Vacuolization Cytoplasmic									1		1 1.0
HEMATOPOIETIC SYSTEM											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage									1		1 1.0
Hypocellularity		1		1	1		1		1	1	6 1.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	I	+	9
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
HARLAN SPRAGUE DAWLEY RATS MALE	2	2	2	2	2	2	2	2	2	2			
10 mg/kg/d M	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			
	6	6	6	6	6	6	6	6	6	6			
	0	0	0	0	0	0	0	0	0	1			
	1	2	3	4	5	6	7	8	9	0			
											* TOTALS		
Bone	+	+	+	+	+	+	+	+	+	+			10
NERVOUS SYSTEM													
Brain	+	+	+	+	+	+	+	+	+	+			10
RESPIRATORY SYSTEM													
Lung	+	+	+	+	+	+	+	+	+	+			10
Nose	+	+	+	+	+	+	+	+	+	+			10
Respiratory Epithelium, Hyperplasia						1	2	1	1			4	1.3
Respiratory Epithelium, Inflammation, Chronic Active						1	1	1	1			4	1.0
Trachea	+	+	+	+	+	+	+	+	+	+			10
SPECIAL SENSES SYSTEM													
Eye	+	+	+	+	+	+	+	+	+	+			10
Harderian Gland	+	+	+	+	+	+	+	+	+	+			10
URINARY SYSTEM													
Kidney	+	+	+	+	+	+	+	+	+	+			10
Nephropathy, Chronic Progressive	1			1	1		1	1	1			6	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Route: GAVAGE

Species/Strain: RATS/HSD

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Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

		0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2
		9	9	9	9	9	9	9	9	9	9
	0 mg/kg/d F										
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		6	6	6	6	6	6	6	6	6	
		1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell				1							1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active		1									1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
HARLAN SPRAGUE DAWLEY RATS	2	2	2	2	2	2	2	2	2	2			
FEMALE	9	9	9	9	9	9	9	9	9	9			
0 mg/kg/d F	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	6	6	6	6	6	6	6	6	6	6			
	1	1	1	1	1	1	1	1	1	2			
	1	2	3	4	5	6	7	8	9	0			* TOTALS
Blood Vessel	+	+	+	+	+	+	+	+	+	+			10
Heart	+	+	+	+	+	+	+	+	+	+			10
ENDOCRINE SYSTEM													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+			10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+			10
Parathyroid Gland	+	M	M	+	+	M	+	+	+	+			7
Pituitary Gland	+	+	+	+	+	+	+	+	+	+			10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+			10
GENERAL BODY SYSTEM													
NONE													
GENITAL SYSTEM													
Clitoral Gland	+	+	+	+	+	+	+	+	+	+			10
Ovary	+	+	+	+	+	+	+	+	+	+			10
Uterus	+	+	+	+	+	+	+	+	+	+			10
HEMATOPOIETIC SYSTEM													

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	2	
		9	9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	6	
		1	1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	0	
Bone Marrow		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric		+	+	+	+	+	+	+	M	+	+	9
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM												
Bone		+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM												
Brain		+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM												
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	2	2	2	2	2	2	2	2	2	2			
HARLAN SPRAGUE DAWLEY RATS	9	9	9	9	9	9	9	9	9	9			
FEMALE													
0 mg/kg/d F													
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	6	6	6	6	6	6	6	6	6	6			
	1	1	1	1	1	1	1	1	1	2			
	1	2	3	4	5	6	7	8	9	0			* TOTALS
Trachea	+	+	+	+	+	+	+	+	+	+			10
SPECIAL SENSES SYSTEM													
Eye	+	+	+	+	+	+	+	+	+	+			10
Harderian Gland	+	+	+	+	+	+	+	+	+	+			10
URINARY SYSTEM													
Kidney	+	+	+	+	+	+	+	+	+	+			10
Nephropathy, Chronic Progressive	1					1	1	1		1			5 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

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Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 6.25mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		9	9	9	9	9	9	9	9	9	
		6	6	6	6	6	6	6	6	6	
		2	2	2	2	2	2	2	2	3	
		1	2	3	4	5	6	7	8	9	
* TOTALS											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell							1				1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	+	+	10
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HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
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Spleen	+	+	+	+	+	+	+	+	+	+	10
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* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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HARLAN SPRAGUE DAWLEY RATS FEMALE 6.25mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2
		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
		6	6	6	6	6	6	6	6	6	6
		2	2	2	2	2	2	2	2	2	3
		1	2	3	4	5	6	7	8	9	0
		* TOTALS									

Thymus	+	+	+	+	+	+	+	+	+	M	+	9
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INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+	+	10
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SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive	1		1				1				3 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 12.5mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2
		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
		6	6	6	6	6	6	6	6	6	6	6	6	6
		3	3	3	3	3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9	0			

* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus						X						1
Infiltration Cellular, Mixed Cell		1										1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Parathyroid Gland									M		0	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	+	+	10	
Uterus						+					1	
Cyst						X						1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
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A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
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HARLAN SPRAGUE DAWLEY RATS FEMALE 12.5mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2
		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
		6	6	6	6	6	6	6	6	6
		3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9

* TOTALS

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+	10
Respiratory Epithelium, Hyperplasia	1	1					1	1			4 1.0
Respiratory Epithelium, Inflammation, Chronic Active	1	1					1	1			4 1.0

SPECIAL SENSES SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 12.5mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0	* TOTALS
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		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	
		6	6	6	6	6	6	6	6	6	
		3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	
		0	0	0	0	0	0	0	0	0	

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive		1			1						2 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 25 mg/kg/d F	DAY ON TEST	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
		2	2	2	2	2	2	2	2	2	2	2	2	2	2
		9	9	9	9	9	9	9	9	9	9	9	9	9	9
		6	6	6	6	6	6	6	6	6	6	6	6	6	6
		4	4	4	4	4	4	4	4	4	4	4	4	5	5
		1	2	3	4	5	6	7	8	9	9	9	9	0	0
* TOTALS															

ALIMENTARY SYSTEM

Intestine Large, Cecum	M													0		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mixed Cell													1		1	1.0
Hepatocyte, Cytoplasmic Alteration	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 25 mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		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	
		6	6	6	6	6	6	6	6	6	
		4	4	4	4	4	4	4	4	5	
		1	2	3	4	5	6	7	8	9	
											* TOTALS

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+	10		
Olfactory Epithelium, Degeneration						1				1		2	1.0
Olfactory Epithelium, Hyperplasia						1				1		2	1.0
Respiratory Epithelium, Inflammation, Chronic Active								1				1	1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS FEMALE
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	50 mg/kg/d F
	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	
	6	6	6	6	6	6	6	6	6	6	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
* TOTALS											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mixed Cell					1							1 1.0
Hepatocyte, Cytoplasmic Alteration	1	1	1	1	1	1	1	1	1	1		10 1.0
Hepatocyte, Hypertrophy			1	2								2 1.5
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cell, Hypertrophy					1							1 1.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	+	+	10	
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HEMATOPOIETIC SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 50 mg/kg/d F	DAY ON TEST										ANIMAL ID	
	0029	0029	0029	0029	0029	0029	0029	0029	0029	0029		
	0	0	0	0	0	0	0	0	0	0	00651	
	0	0	0	0	0	0	0	0	0	0	00662	
	0	0	0	0	0	0	0	0	0	0	00663	
	0	0	0	0	0	0	0	0	0	0	00664	
	0	0	0	0	0	0	0	0	0	0	00665	
	0	0	0	0	0	0	0	0	0	0	00666	
	0	0	0	0	0	0	0	0	0	0	00667	
	0	0	0	0	0	0	0	0	0	0	00668	
	0	0	0	0	0	0	0	0	0	0	00669	
	0	0	0	0	0	0	0	0	0	0	00670	
	0	0	0	0	0	0	0	0	0	0	00671	
	0	0	0	0	0	0	0	0	0	0	00672	
	0	0	0	0	0	0	0	0	0	0	00673	
	0	0	0	0	0	0	0	0	0	0	00674	
	0	0	0	0	0	0	0	0	0	0	00675	
	0	0	0	0	0	0	0	0	0	0	00676	
	0	0	0	0	0	0	0	0	0	0	00677	
	0	0	0	0	0	0	0	0	0	0	00678	
	0	0	0	0	0	0	0	0	0	0	00679	
	0	0	0	0	0	0	0	0	0	0	00680	
	0	0	0	0	0	0	0	0	0	0	00681	
	0	0	0	0	0	0	0	0	0	0	00682	
	0	0	0	0	0	0	0	0	0	0	00683	
	0	0	0	0	0	0	0	0	0	0	00684	
	0	0	0	0	0	0	0	0	0	0	00685	
	0	0	0	0	0	0	0	0	0	0	00686	
	0	0	0	0	0	0	0	0	0	0	00687	
	0	0	0	0	0	0	0	0	0	0	00688	
	0	0	0	0	0	0	0	0	0	0	00689	
	0	0	0	0	0	0	0	0	0	0	00690	
	0	0	0	0	0	0	0	0	0	0	00691	
	0	0	0	0	0	0	0	0	0	0	00692	
	0	0	0	0	0	0	0	0	0	0	00693	
	0	0	0	0	0	0	0	0	0	0	00694	
	0	0	0	0	0	0	0	0	0	0	00695	
	0	0	0	0	0	0	0	0	0	0	00696	
	0	0	0	0	0	0	0	0	0	0	00697	
	0	0	0	0	0	0	0	0	0	0	00698	
	0	0	0	0	0	0	0	0	0	0	00699	
	0	0	0	0	0	0	0	0	0	0	00700	
	0	0	0	0	0	0	0	0	0	0	00701	
	0	0	0	0	0	0	0	0	0	0	00702	
	0	0	0	0	0	0	0	0	0	0	00703	
	0	0	0	0	0	0	0	0	0	0	00704	
	0	0	0	0	0	0	0	0	0	0	00705	
	0	0	0	0	0	0	0	0	0	0	00706	
	0	0	0	0	0	0	0	0	0	0	00707	
	0	0	0	0	0	0	0	0	0	0	00708	
	0	0	0	0	0	0	0	0	0	0	00709	
	0	0	0	0	0	0	0	0	0	0	00710	
	0	0	0	0	0	0	0	0	0	0	00711	
	0	0	0	0	0	0	0	0	0	0	00712	
	0	0	0	0	0	0	0	0	0	0	00713	
	0	0	0	0	0	0	0	0	0	0	00714	
	0	0	0	0	0	0	0	0	0	0	00715	
	0	0	0	0	0	0	0	0	0	0	00716	
	0	0	0	0	0	0	0	0	0	0	00717	
	0	0	0	0	0	0	0	0	0	0	00718	
	0	0	0	0	0	0	0	0	0	0	00719	
	0	0	0	0	0	0	0	0	0	0	00720	
	0	0	0	0	0	0	0	0	0	0	00721	
	0	0	0	0	0	0	0	0	0	0	00722	
	0	0	0	0	0	0	0	0	0	0	00723	
	0	0	0	0	0	0	0	0	0	0	00724	
	0	0	0	0	0	0	0	0	0	0	00725	
	0	0	0	0	0	0	0	0	0	0	00726	
	0	0	0	0	0	0	0	0	0	0	00727	
	0	0	0	0	0	0	0	0	0	0	00728	
	0	0	0	0	0	0	0	0	0	0	00729	
	0	0	0	0	0	0	0	0	0	0	00730	
	0	0	0	0	0	0	0	0	0	0	00731	
	0	0	0	0	0	0	0	0	0	0	00732	
	0	0	0	0	0	0	0	0	0	0	00733	
	0	0	0	0	0	0	0	0	0	0	00734	
	0	0	0	0	0	0	0	0	0	0	00735	
	0	0	0	0	0	0	0	0	0	0	00736	
	0	0	0	0	0	0	0	0	0	0	00737	
	0	0	0	0	0	0	0	0	0	0	00738	
	0	0	0	0	0	0	0	0	0	0	00739	
	0	0	0	0	0	0	0	0	0	0	00740	
	0	0	0	0	0	0	0	0	0	0	00741	
	0	0	0	0	0	0	0	0	0	0	00742	
	0	0	0	0	0	0	0	0	0	0	00743	
	0	0	0	0	0	0	0	0	0	0	00744	
	0	0	0	0	0	0	0	0	0	0	00745	
	0	0	0	0	0	0	0	0	0	0	00746	
	0	0	0	0	0	0	0	0	0	0	00747	
	0	0	0	0	0	0	0	0	0	0	00748	
	0	0	0	0	0	0	0	0	0	0	00749	
	0	0	0	0	0	0	0	0	0	0	00750	
	0	0	0	0	0	0	0	0	0	0	00751	
	0	0	0	0	0	0	0	0	0	0	00752	
	0	0	0	0	0	0	0	0	0	0	00753	
	0	0	0	0	0	0	0	0	0	0	00754	
	0	0	0	0	0	0	0	0	0	0	00755	
	0	0	0	0	0	0	0	0	0	0	00756	
	0	0	0	0	0	0	0	0	0	0	00757	
	0	0	0	0	0	0	0	0	0	0	00758	
	0	0	0	0	0	0	0	0	0	0	00759	
	0	0	0	0	0	0	0	0	0	0	00760	
	0	0	0	0	0	0	0	0	0	0	00761	
	0	0	0	0	0	0	0	0	0	0	00762	
	0	0	0	0	0	0	0	0	0	0	00763	
	0	0	0	0	0	0	0	0	0	0	00764	
	0	0	0	0	0	0	0	0	0	0	00765	
	0	0	0	0	0	0	0	0	0	0	00766	
	0	0	0	0	0	0	0	0	0	0	00767	
	0	0	0	0	0	0	0	0	0	0	00768	
	0	0	0	0	0	0	0	0	0	0	00769	
	0	0	0	0	0	0	0	0	0	0	00770	
	0	0	0	0	0	0	0	0	0	0	00771	
	0	0	0	0	0	0	0	0	0	0	00772	
	0	0	0	0	0	0	0	0	0	0	00773	
	0	0	0	0	0	0	0	0	0	0	00774	
	0	0	0	0	0	0	0	0	0	0	00775	
	0	0	0	0	0	0	0	0	0	0	00776	
	0	0	0	0	0	0	0	0	0	0	00777	
	0	0	0	0	0	0	0	0	0	0	00778	
	0	0	0	0	0	0	0	0	0	0	00779	
	0	0	0	0	0	0	0	0	0	0	00780	
	0	0	0	0	0	0	0	0	0	0	00781	
	0	0	0	0	0	0	0	0	0	0	00782	
	0	0	0	0	0	0	0	0	0	0	00783	
	0	0	0	0	0	0	0	0	0	0	00784	
	0	0	0	0	0	0	0	0	0	0	00785	
	0	0	0	0	0	0	0	0	0	0	00786	
	0	0	0	0	0	0	0	0	0	0	00787	
	0	0	0	0	0	0	0	0	0	0	00788	
	0	0	0	0	0	0	0	0	0	0	00789	
	0	0	0	0	0	0	0	0	0	0	00790	
	0	0	0	0	0	0	0	0	0	0	00791	
	0	0</										

Experiment Number: 91070 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 02/06/2018

Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 50 mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		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	
		6	6	6	6	6	6	6	6	6	
		5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	
											* TOTALS

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive			1		1	1	1	1			5 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10		
Fibrosis										2		1	2.0
Inflammation, Histiocytic										1		1	1.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10		
Liver	+	+	+	+	+	+	+	+	+	+	10		
Hepatocyte, Cytoplasmic Alteration	2	2	3	1	2	2	2	3	1	1		10	1.9
Hepatocyte, Hypertrophy	2	2	3	1	2	2	2	3	2	1		10	2.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10		
Mucosa, Hyperplasia										2		1	2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10		

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+ .. Tissue examined microscopically

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Experiment Number: 91070 - 01

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Species/Strain: RATS/HSD

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 100 mg/kg/d F	DAY ON TEST	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	0	2
		9	9	9	9	9	9	9	8	9
	ANIMAL ID	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6
		6	6	6	6	6	6	6	6	7
		1	2	3	4	5	6	7	8	9

* TOTALS

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Follicular Cell, Atrophy								3			1 3.0
Follicular Cell, Hypertrophy	1	1	1	1		1	1	1		1	8 1.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10

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First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
HARLAN SPRAGUE DAWLEY RATS	2	2	2	2	2	2	2	2	0	2			
FEMALE	9	9	9	9	9	9	9	9	8	9			
100 mg/kg/d F	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	6	6	6	6	6	6	6	6	6	6			
	6	6	6	6	6	6	6	6	6	7			
	1	2	3	4	5	6	7	8	9	0			
											* TOTALS		
Uterus	+	+	+	+	+	+	+	+	+	+			10
HEMATOPOIETIC SYSTEM													
Bone Marrow	+	+	+	+	+	+	+	+	+	+			10
Hypocellularity									2				1 2.0
Lymph Node, Mandibular	I	+	+	+	+	+	+	+	I	+			8
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+			10
Atrophy									2				1 2.0
Infiltration Cellular, Histiocyte									4				1 4.0
Lymphocyte, Apoptosis									3				1 3.0
Spleen	+	+	+	+	+	+	+	+	+	+			10
White Pulp, Atrophy									4				1 4.0
Thymus	+	+	+	+	+	+	+	+	+	+			10
Atrophy									4				1 4.0
INTEGUMENTARY SYSTEM													
Mammary Gland	+	+	+	+	+	+	+	+	+	+			10
Skin	+	+	+	+	+	+	+	+	+	+			10
MUSCULOSKELETAL SYSTEM													
Bone	+	+	+	+	+	+	+	+	+	+			10

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Time Report Requested: 12:35:28

First Dose M/F: 01/31/12 / 02/01/12

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS FEMALE
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	0	2	100 mg/kg/d F
	9	9	9	9	9	9	9	9	8	9	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	
	6	6	6	6	6	6	6	6	6	7	
	1	2	3	4	5	6	7	8	9	0	
* TOTALS											

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10		
Fibrosis, Focal					1							1	1.0
Infiltration Cellular, Mixed Cell			1		1							2	1.0
Nose	+	+	+	+	+	+	+	+	+	+	10		
Olfactory Epithelium, Degeneration	2	1	1	1	2	2		1	3	3		9	1.8
Olfactory Epithelium, Inflammation, Suppurative	1	1	1		2				2	2		6	1.5
Respiratory Epithelium, Hyperplasia	3	2	1	1	1	1		2		2		8	1.6
Respiratory Epithelium, Inflammation, Chronic Active	2	1	1	1	2	1		2	1	2		9	1.4
Trachea	+	+	+	+	+	+	+	+	+	+	10		

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Nephropathy, Chronic Progressive			1			1		1		1		4	1.0
Renal Tubule, Necrosis								2				1	2.0

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
HARLAN SPRAGUE DAWLEY RATS	2	2	2	2	2	2	2	2	0	2			
FEMALE	9	9	9	9	9	9	9	9	8	9			
100 mg/kg/d F	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	6	6	6	6	6	6	6	6	6	6			
	6	6	6	6	6	6	6	6	6	7			
	1	2	3	4	5	6	7	8	9	0			
												* TOTALS	
Renal Tubule, Regeneration	1											1 1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			10

*** END OF REPORT ***

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