

**Experiment Number:** 20614 - 02  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 07/24/2018  
**Time Report Requested:** 13:12:17  
**First Dose M/F:** 07/27/09 / NA  
**Lab:** BAT

Final 1\_16-Week SSAC Only

**NTP Study Number:** C20614B  
**Lock Date:** 01/10/2012  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** 25017 SSAC  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Male  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** 07/24/2018

Experiment Number: 20614 - 02

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Route: DOSED FEED

Species/Strain: RATS/HSD

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CAS Number: 335-67-1

Date Report Requested: 07/24/2018

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First Dose M/F: 07/27/09 / NA

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS MALE 0/0 ppm	ANIMAL ID	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8	8	8			5	5	5	5	5	5	5	6		
													1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>									
Clear Cell Focus			X								<b>1</b>									
Inflammation, Focal	1	1	1	1	1	1	1	1		1	<b>9 1.0</b>									
Necrosis										1	<b>1 1.0</b>									
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>									

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

\* .. 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

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0/0 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	* TOTALS
	ANIMAL ID	1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY 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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Time Report Requested: 13:12:17

First Dose M/F: 07/27/09 / NA

Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>300/0 ppm</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	
											<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Clear Cell Focus					X						<b>1</b>
Inflammation, Focal	1		1	1	1			1	1		<b>7 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

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

+ .. Tissue examined microscopically

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Date Report Requested: 07/24/2018

Time Report Requested: 13:12:17

First Dose M/F: 07/27/09 / NA

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 300/0 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	
		1	1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0/20 ppm	DAY ON TEST										ANIMAL ID
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	8	8	8	8	8	8	8	8	8	8	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	
											<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Clear Cell Focus				X							<b>1</b>
Inflammation, Focal	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Necrosis							1				<b>1 1.0</b>
Pigment		1					1				<b>2 1.0</b>
Hepatocyte, Cytoplasmic Alteration	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Hepatocyte, Hypertrophy	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Hepatocyte, Single Cell Death	1		1	1		1	1	1		1	<b>7 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

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

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Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>0/20 ppm</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		7	7	7	7	7	7	7	7	8	
		1	2	3	4	5	6	7	8	9	

**\* TOTALS**

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

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 300/20 ppm	ANIMAL ID	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8	8	8			2	2	2	2	2	2	2	2	2	
													3	3	3	3	3	3	3	3	4	
													1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>									
Basophilic Focus		X									<b>1</b>									
Clear Cell Focus	X		X								<b>2</b>									
Inflammation, Focal	1	1	1	1	1	1	1		1	1	<b>9 1.0</b>									
Necrosis							1			1	<b>2 1.0</b>									
Pigment	1				1					1	<b>3 1.0</b>									
Hepatocyte, Cytoplasmic Alteration	2	1	1	1	1	1	1		1	2	<b>9 1.2</b>									
Hepatocyte, Hypertrophy	1	1	1	1	1	1	1		1	2	<b>9 1.1</b>									
Hepatocyte, Single Cell Death	1			1			1		1	1	<b>5 1.0</b>									

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC 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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Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>300/20 ppm</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	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	
		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	

**\* TOTALS**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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First Dose M/F: 07/27/09 / NA

Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>0/40 ppm</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	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	3	
		9	9	9	9	9	9	9	9	0	
		1	2	3	4	5	6	7	8	9	
											<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Inflammation, Focal	1	1	1	2	1	1	2	1	1	1		<b>10 1.2</b>
Necrosis		1	1	1	1	1	1					<b>6 1.0</b>
Pigment	1	1	1	1	1		1	1	1			<b>8 1.0</b>
Hepatocyte, Cytoplasmic Alteration	1	1	2	2	2	2	2	2	2	2		<b>10 1.8</b>
Hepatocyte, Hypertrophy	1	1	1	1	1	1	1	1	1	1		<b>10 1.0</b>
Hepatocyte, Single Cell Death	1		1	1	1	1	1	1	1	1		<b>9 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

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

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS MALE 0/40 ppm	ANIMAL ID	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8	8	8			2	2	2	2	2	2	2	2	3	
													9	9	9	9	9	9	9	9	0	
													1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>											

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

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 300/40 ppm	ANIMAL ID	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8	8	8			3	3	3	3	3	3	3	3		
													5	5	5	5	5	5	5	6		
													1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>											

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Inflammation, Focal	1	1				1	1	1	1	1	<b>7 1.0</b>	
Necrosis		1				1			1		<b>3 1.0</b>	
Pigment	1		1	1			1	1	1	1	<b>7 1.0</b>	
Hepatocyte, Cytoplasmic Alteration	2	1	2	1	1	2	2	2	2	2	<b>10 1.7</b>	
Hepatocyte, Hypertrophy	1	1	1	1	1	1	1	1	2	1	<b>10 1.1</b>	
Hepatocyte, Single Cell Death			1	1	1	1	1	1	1	1	<b>8 1.0</b>	

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

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

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	HARLAN SPRAGUE DAWLEY RATS MALE 300/40 ppm	ANIMAL ID	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8	8	8			3	3	3	3	3	3	3	3		
													5	5	5	5	5	5	5	6		
													1	2	3	4	5	6	7	8	9	0
											<b>* TOTALS</b>											

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

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First Dose M/F: 07/27/09 / NA

Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0
<b>HARLAN SPRAGUE DAWLEY RATS MALE 0/80 ppm</b>	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	0	0	0
		8	8	8	8	8	8	8	8	8	8	8	8	8
		0	0	0	0	0	0	0	0	0	0	0	0	0
		4	4	4	4	4	4	4	4	4	4	4	4	4
		1	1	1	1	1	1	1	1	1	1	1	2	2
		1	2	3	4	5	6	7	8	9	0			
													<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	+				<b>10</b>
Clear Cell Focus												X			<b>1</b>
Hepatodiaphragmatic Nodule	X														<b>1</b>
Inflammation, Focal	1	1	1	1	1			1	1	1					<b>8 1.0</b>
Necrosis	2				1	1	2								<b>4 1.5</b>
Pigment	1	1	1	1		1	1	1	1	1	1				<b>9 1.0</b>
Hepatocyte, Cytoplasmic Alteration	2	2	2	2	2	2	2	2	2	2	2				<b>10 2.0</b>
Hepatocyte, Hypertrophy	1	1	1	2	1	1	1	1	2	1	1				<b>10 1.2</b>
Hepatocyte, Single Cell Death	1	1	1	1	1	1	1	1	1	1	1				<b>10 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	+				<b>10</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

\* .. 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: 20614 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/24/2018

Time Report Requested: 13:12:17

First Dose M/F: 07/27/09 / NA

Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>0/80 ppm</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	<b>* TOTALS</b>
		1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	
		1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	
		0	0	0	0	0	0	0	0	0	

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. 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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Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/24/2018

Time Report Requested: 13:12:17

First Dose M/F: 07/27/09 / NA

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 300/80 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		8	8	8	8	8	8	8	8	8	
		0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	
		7	7	7	7	7	7	7	7	8	
		1	2	3	4	5	6	7	8	9	
											<b>* TOTALS</b>

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Clear Cell Focus				X	X						<b>2</b>
Inflammation, Focal	1	1	1	1		1	1	1		1	<b>8 1.0</b>
Necrosis						1					<b>1 1.0</b>
Pigment	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Hepatocyte, Cytoplasmic Alteration	2	2	2	2	1	2	2	2	2	2	<b>10 1.9</b>
Hepatocyte, Hypertrophy	1	1	1	1	1	1	2	1	1	2	<b>10 1.2</b>
Hepatocyte, Single Cell Death	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

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

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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 07/24/2018

Time Report Requested: 13:12:17

First Dose M/F: 07/27/09 / NA

Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>300/80 ppm</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	* TOTALS
		1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	
		7	7	7	7	7	7	7	7	8	
		1	2	3	4	5	6	7	8	9	
										0	

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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

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I .. Insufficient tissue

M .. Missing tissue

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