Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

NTP Study Number: C20724

**Lock Date:** 03/04/2010

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

#### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON TES	•	0	0	0	0 0	
WISTAR HAN RATS MALE	1 7			7	7	
Control	0 0			0	0 0	
ANIMAL I	D   0	0	0	0 0	0 0	
	1		3	4	5	* TOTALS
ALIMENTARY SYSTEM						
NONE						
CARDIOVASCULAR SYSTEM						
NONE						
ENDOCRINE SYSTEM						
NONE						
GENERAL BODY SYSTEM						
NONE						
GENITAL SYSTEM		•		•		
NONE						
HEMATOPOIETIC SYSTEM						
Lymph Node, Bronchial	+	+	+	+	+	5
Lymph Node, Mediastinal	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
NONE						

## **MUSCULOSKELETAL SYSTEM**

- \* .. 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

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON TES WISTAR HAN RATS MALE	Γ 0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7		
Control  ANIMAL I	0 0 0 0 0	0 0 0 0 0 2	0 0 0 0 3	0 0 0 0 0 4	0 0 0 0 5	* TO	TALS
NONE							
NERVOUS SYSTEM				-	-		
NONE							
RESPIRATORY SYSTEM							
Larynx	+	+	+	+	+		5
Lung	+	+	+	+	+		5
Nose	+	+	+	+	+		5
Trachea	+	+	+	+	+		5
SPECIAL SENSES SYSTEM				-			
NONE							
URINARY SYSTEM				-			
NONE							
SYSTEMIC LESIONS		,					
Multiple Organ	+	+	+	+	+		5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

DAY ON TEST WISTAR HAN RATS MALE	-	
6.25 PPM		
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		

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

	DAY ON TEST	
WISTAR HAN RAT	MALE	
6.25 PPM		
	ANIMAL ID	
		* TOTALS
NERVOUS SYSTEM		
NONE		
RESPIRATORY SY	STEM	
NONE		
SPECIAL SENSES	SYSTEM	
NONE		
URINARY SYSTEM		
NONE		
SYSTEMIC LESION	<u> </u>	
Multiple Organ		0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

* TOTALS
TOTALO

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

	DAY ON TEST		
WISTAR HAN RAT	S MALE		
25 PPM			
	ANIMAL ID		
		* TO	TALS
NERVOUS SYSTE	M		
NONE			
RESPIRATORY SY	STEM		
NONE			
SPECIAL SENSES	SYSTEM		
NONE			
URINARY SYSTEM	Л		
NONE			
SYSTEMIC LESIO	NS		
Multiple Organ			0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON T	EST	
100 PPM		
ANIMA	.L ID	
		* TOTAL C
	<del></del>	* 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		

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

	DAY ON TEST	
WISTAR HAN RATS	ALE	
100 PPM		
	ANIMAL ID	
		 * TOTALS
NERVOUS SYSTEM		
NONE		
RESPIRATORY SYST	<b>∃M</b>	
NONE		
SPECIAL SENSES SY	STEM	
NONE		
URINARY SYSTEM		
NONE		
SYSTEMIC LESIONS		
Multiple Organ		0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

DAY ON TEST WISTAR HAN RATS MALE	
400 PPM	
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	

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

WISTAR HAN RA	DAY ON TEST  S MALE	
400 PPM	ANIMAL ID	
	ANIMAL ID	
		* TOTALS
NERVOUS SYSTE	M	
NONE		
RESPIRATORY S	<b>STEM</b>	
NONE		
SPECIAL SENSES	SSYSTEM	
NONE		
URINARY SYSTE	Λ	
NONE		
SYSTEMIC LESIO	NS	
Multiple Organ		0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

					<b>,</b>	
DAY ON TEST WISTAR HAN RATS MALE	0 0 1	0 0 1 7	0 0 1	0 0 1		
	7		7	7		
800 PPM  ANIMAL ID	0 1 0 0 1	0 1 0 0 2	0 1 0 0 3	0 1 0 0 4		* TOTALS
ALIMENTARY SYSTEM						
NONE						
CARDIOVASCULAR SYSTEM						
NONE						
ENDOCRINE SYSTEM						
NONE						
GENERAL BODY SYSTEM						
NONE						
GENITAL SYSTEM						
NONE						
HEMATOPOIETIC SYSTEM						
Lymph Node, Bronchial	+	М	+	+		4
Lymph Node, Mediastinal	+	М	+	М		3

## INTEGUMENTARY SYSTEM

NONE

## **MUSCULOSKELETAL SYSTEM**

- \* .. 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

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON TEST WISTAR HAN RATS MALE	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1	0 0 1	
800 PPM ANIMAL ID	0 1 0 0 1	0 1 0 0 2	0 1 0 0 3	7 0 1 0 0 4	7 0 1 0 0 5	* TOTAL:
NONE	'	'		•		
NERVOUS SYSTEM		-	-	-		
NONE						
RESPIRATORY SYSTEM						
Larynx	+	+	+	+	+	5
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM		-	-	-		
NONE						
URINARY SYSTEM						
NONE						
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

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

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON TES	ST 0 0 1 7	0 0 1 7	0 1	0 0 1 7	0 0 1 7	
Control ANIMAL	ID 0 1 0 1 0 1 1 0 1 1	0	0 0 1	0 0 1 0 4	0 0 1 0 5	
ALIMENTARY SYSTEM				1 .		* TOTAL
NONE						
CARDIOVASCULAR SYSTEM		•		-		
NONE						
ENDOCRINE SYSTEM			•			
NONE						
GENERAL BODY SYSTEM						
NONE						

# GENITAL SYSTEM

NONE

### **HEMATOPOIETIC SYSTEM**

 Lymph Node
 +
 +
 M
 M
 +
 +
 M
 M
 +
 3

 Lymph Node, Mediastinal
 +
 +
 +
 M
 +
 +
 4

### **INTEGUMENTARY SYSTEM**

NONE

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON TEST WISTAR HAN RATS FEMALE	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
Control  ANIMAL ID	0 0 1 0	0 0 1 0 2	0 0 1 0 3	0 0 1 0 4	* TOTALS
MUSCULOSKELETAL SYSTEM				-	
NONE					
NERVOUS SYSTEM					
NONE					
RESPIRATORY SYSTEM					
Larynx	+	+	+	+	5
Lung	+	+	+	+	5
Nose	+	+	+	+	5
Trachea	+	+	+	+	 5
SPECIAL SENSES SYSTEM					
NONE					 
URINARY SYSTEM					
NONE					
SYSTEMIC LESIONS					
Multiple Organ	+	+	+	+	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

DAY ON TEST WISTAR HAN RATS FEMALE	
6.25 PPM	
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	

 $<sup>\</sup>ensuremath{^{\star}}$  .. Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

	DAY ON TEST	
WISTAR HAN RATS FEI	ALE	
6.25 PPM		
	ANIMAL ID	
		 * TOTALS
NERVOUS SYSTEM		
NONE		
RESPIRATORY SYSTEM		
NONE		
SPECIAL SENSES SYS	<b>EM</b>	
NONE		
URINARY SYSTEM		
NONE		
SYSTEMIC LESIONS		
Multiple Organ		0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON TEST WISTAR HAN RATS FEMALE 25 PPM 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	

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

	DAY ON TEST	
<b>WISTAR HAN RATS FE</b>	MALE	
25 PPM		
	ANIMAL ID	
		* TOTALS
NERVOUS SYSTEM		
NONE		
RESPIRATORY SYSTEM	М	
NONE		
SPECIAL SENSES SYS	TEM	
NONE		
URINARY SYSTEM		
NONE		
SYSTEMIC LESIONS		
Multiple Organ		0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

DAY ON TEST WISTAR HAN RATS FEMALE 100 PPM ANIMAL ID	
	* TOTALS
ALIMENTARY SYSTEM	TOTALS
NONE	
CARDIOVASCULAR SYSTEM	
NONE	
ENDOCRINE SYSTEM	
NONE	
GENERAL BODY SYSTEM	
NONE	
GENITAL SYSTEM	
NONE	
HEMATOPOIETIC SYSTEM	
NONE	
INTEGUMENTARY SYSTEM	
NONE	
MUSCULOSKELETAL SYSTEM	
NONE	

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

	DAY ON TEST	
WISTAR HAN RATS FE	MALE	
100 PPM		
	ANIMAL ID	
		* TOTALS
NERVOUS SYSTEM		
NONE		
RESPIRATORY SYSTE	Л	
NONE		
SPECIAL SENSES SYS	ГЕМ	
NONE		
URINARY SYSTEM		
NONE		
SYSTEMIC LESIONS		
Multiple Organ		0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

DAY ON TEST WISTAR HAN RATS FEMALE 400 PPM 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	

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

	DAY ON TEST	
WISTAR HAN RATS FE	MALE	 _
400 PPM		
	ANIMAL ID	
		 * TOTALS
NERVOUS SYSTEM		
NONE		
RESPIRATORY SYSTE	Л	
NONE		
SPECIAL SENSES SYS	ГЕМ	
NONE		
URINARY SYSTEM		
NONE		
SYSTEMIC LESIONS		-
Multiple Organ		0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON WISTAR HAN RATS FEMALE	N TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1	0 0 1	
800 PPM	MAL ID	0 1 1 0 1	0 1 1 0 2	7 0 1 1 0 3	7 0 1 1 0 4	7 0 1 1 0 5	* TOTALS
ALIMENTARY SYSTEM			·				1017120
NONE							
CARDIOVASCULAR SYSTEM				•			
NONE							
ENDOCRINE SYSTEM							
NONE							
GENERAL BODY SYSTEM							
NONE							
GENITAL SYSTEM							
NONE							
HEMATOPOIETIC SYSTEM	_						
Lymph Node, Bronchial	_	+	+	М	+	+	4
Lymph Node, Mediastinal		+	+	+	+	+	5

## **MUSCULOSKELETAL 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

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Acetoin

**CAS Number:** 513-86-0

Date Report Requested: 05/19/2016 Time Report Requested: 10:29:38 First Dose M/F: 10/27/08 / 10/27/08

Lab: BNW

DAY ON TEST WISTAR HAN RATS FEMALE	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
800 PPM ANIMAL ID	0 1 1 0 1	0 1 1 0 2	0 1 1 0 3	0 1 1 0 4	0 1 1 0 5	* TOTAL:
NONE	•					
NERVOUS SYSTEM				-		
NONE						
RESPIRATORY SYSTEM						
Larynx	+	+	+	+	+	5
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
NONE						
URINARY SYSTEM				-	-	
NONE						
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

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

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically