

**Experiment Number:** 03038 - 03  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/HSD

**E05: CLINICAL OBSERVATIONS SUMMARY**  
Sodium Tungstate Dihydrate  
**CAS Number:** 10213-10-2

**Date Report Requested:** 05/25/2016  
**Time Report Requested:** 15:05:40  
**First Dose M/F:** 01/30/12 / 01/31/12  
**Lab:** BAT

**NTP Study Number:** C03038  
**Lock Date:** 05/25/2016  
**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

Experiment Number: 03038 - 03

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Species/Strain: RATS/HSD

## E05: CLINICAL OBSERVATIONS SUMMARY

Sodium Tungstate Dihydrate

CAS Number: 10213-10-2

Date Report Requested: 05/25/2016

Time Report Requested: 15:05:40

First Dose M/F: 01/30/12 / 01/31/12

Lab: BAT

SEX: MALE		WEEK: 105							
OBSERVATION	0mg/L male		250mg/L male		500mg/L male		1000mg/L male		
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
Eye Abnormality	0 / 0	2 / 50 DAY 540	0 / 0	1 / 50 DAY 540	0 / 0	3 / 50 DAY 512	0 / 0	0 / 50	
Head Tilt	0 / 0	2 / 50 DAY 652	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	
Impaired Gait	0 / 0	0 / 50	0 / 0	2 / 50 DAY 344	0 / 0	0 / 50	0 / 0	0 / 50	
Lethargic	0 / 0	1 / 50 DAY 652	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	
Mass Appendage	0 / 0	0 / 50	0 / 0	3 / 50 DAY 512	0 / 0	0 / 50	0 / 0	2 / 50 DAY 484	
Mass Head	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 680	0 / 0	1 / 50 DAY 652	
Mass Torso/Dorsal	0 / 0	0 / 50	0 / 0	5 / 50 DAY 344	0 / 0	1 / 50 DAY 456	0 / 0	0 / 50	
Mass Torso/Lateral	0 / 0	1 / 50 DAY 708	0 / 0	3 / 50 DAY 540	0 / 0	2 / 50 DAY 652	0 / 0	3 / 50 DAY 484	

\* ANIMALS WITH OBSERVATION IN CURRENT PERIOD / TOTAL ANIMALS OBSERVED IN CURRENT PERIOD (WITHIN 30 DAYS OF RUN DATE)

+ ROW 1 = CUMULATIVE NO. OF ANIMALS WITH OBSERVATION / TOTAL ANIMALS STARTED ON STUDY

ROW 2 = DAY OF ONSET

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	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
<b>Mass</b> Torso/Ventral	0 / 0	1 / 50 DAY 708	0 / 0	4 / 50 DAY 344	0 / 0	2 / 50 DAY 596	0 / 0	3 / 50 DAY 484	
<b>Nasal/Eye Discharge</b>	0 / 0	13 / 50 DAY 64	0 / 0	22 / 50 DAY 36	0 / 0	26 / 50 DAY 176	0 / 0	8 / 50 DAY 64	
<b>Paralysis</b>	0 / 0	1 / 50 DAY 568	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	
<b>Ruffled Fur</b>	0 / 0	15 / 50 DAY 372	0 / 0	8 / 50 DAY 288	0 / 0	14 / 50 DAY 316	0 / 0	9 / 50 DAY 288	
<b>Thin</b>	0 / 0	5 / 50 DAY 540	0 / 0	5 / 50 DAY 456	0 / 0	6 / 50 DAY 568	0 / 0	7 / 50 DAY 512	
<b>Tremors</b>	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 232	0 / 0	0 / 50	
<b>Ulcer/Abscess</b> Appendage	0 / 0	2 / 50 DAY 652	0 / 0	3 / 50 DAY 540	0 / 0	1 / 50 DAY 372	0 / 0	2 / 50 DAY 512	
<b>Ulcer/Abscess</b> Head	0 / 0	2 / 50 DAY 372	0 / 0	1 / 50 DAY 708	0 / 0	6 / 50 DAY 372	0 / 0	1 / 50 DAY 596	

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Lab: BAT

OBSERVATION	WEEK: 105							
	0mg/L male		250mg/L male		500mg/L male		1000mg/L male	
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL
Ulcer/Abscess Torso/Dorsal	0 / 0	2 / 50 DAY 428	0 / 0	3 / 50 DAY 400	0 / 0	3 / 50 DAY 316	0 / 0	0 / 50
Ulcer/Abscess Torso/Lateral	0 / 0	1 / 50 DAY 624	0 / 0	2 / 50 DAY 344	0 / 0	0 / 50	0 / 0	1 / 50 DAY 568
Ulcer/Abscess Torso/Ventral	0 / 0	4 / 50 DAY 344	0 / 0	3 / 50 DAY 428	0 / 0	1 / 50 DAY 680	0 / 0	0 / 50

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

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SEX: FEMALE		WEEK: 105							
OBSERVATION	0mg/L female		250mg/L female		500mg/L female		1000mg/L female		
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
<b>Clonic Seizures</b>	0 / 0	0/50	0 / 0	1 / 50 DAY 652	0 / 0	0/50	0 / 0	0/50	
<b>Lethargic</b>	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 288	0 / 0	0/50	
<b>Mass</b> Torso/Dorsal	0 / 0	0/50	0 / 0	1 / 50 DAY 344	0 / 0	0/50	0 / 0	0/50	
<b>Mass</b> Torso/Lateral	0 / 0	8 / 50 DAY 232	0 / 0	17 / 50 DAY 204	0 / 0	13 / 50 DAY 400	0 / 0	10 / 50 DAY 92	
<b>Mass</b> Torso/Ventral	0 / 0	26 / 50 DAY 372	0 / 0	20 / 50 DAY 260	0 / 0	22 / 50 DAY 344	0 / 0	19 / 50 DAY 176	
<b>Nasal/Eye Discharge</b>	0 / 0	10 / 50 DAY 232	0 / 0	5 / 50 DAY 288	0 / 0	6 / 50 DAY 232	0 / 0	5 / 50 DAY 204	
<b>Ruffled Fur</b>	0 / 0	7 / 50 DAY 204	0 / 0	4 / 50 DAY 344	0 / 0	4 / 50 DAY 288	0 / 0	10 / 50 DAY 400	
<b>Thin</b>	0 / 0	3 / 50 DAY 400	0 / 0	4 / 50 DAY 624	0 / 0	1 / 50 DAY 456	0 / 0	4 / 50 DAY 624	

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	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL
Ulcer/Abscess Appendage	0 / 0	1 / 50 DAY 232	0 / 0	0 / 50	0 / 0	1 / 50 DAY 652	0 / 0	0 / 50
Ulcer/Abscess Head	0 / 0	0 / 50	0 / 0	1 / 50 DAY 624	0 / 0	0 / 50	0 / 0	2 / 50 DAY 204
Ulcer/Abscess Torso/Dorsal	0 / 0	1 / 50 DAY 708	0 / 0	1 / 50 DAY 540	0 / 0	0 / 50	0 / 0	2 / 50 DAY 344
Ulcer/Abscess Torso/Lateral	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 652	0 / 0	2 / 50 DAY 596
Ulcer/Abscess Torso/Ventral	0 / 0	1 / 50 DAY 456	0 / 0	3 / 50 DAY 624	0 / 0	0 / 50	0 / 0	0 / 50

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

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