

Experiment Number: 195873

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Roxarsone**

CAS Number: **121-19-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **07:46:22**

NTP Study Number:

195873

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	98 ± 2.0	76 ± 5.0	144 ± 13.3	150 ± 5.0	145 ± 6.2
100.0	97 ± 8.6	72 ± 3.5	142 ± 5.5	143 ± 9.2	148 ± 6.4
333.0	95 ± 6.1	73 ± 5.0	135 ± 5.0	127 ± 10.2	135 ± 6.9
1000.0	95 ± 7.0	81 ± 4.2	144 ± 3.8	146 ± 10.3	135 ± 4.4
3333.0	107 ± 2.3	83 ± 5.2	135 ± 4.7	138 ± 10.7	135 ± 6.6
10000.0	116 ± 4.1	74 ± 6.7 ^p	126 ± 6.8	45 ± 3.3 ^p	124 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1691 ± 108.4	2719 ± 75.4	1546 ± 267.8
Positive Control ³	1301 ± 14.7	791 ± 38.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	174 ± 10.7
100.0	170 ± 8.2
333.0	158 ± 10.3
1000.0	158 ± 6.7
3333.0	127 ± 4.6
10000.0	54 ± 6.1 ^P
Trial Summary	Negative
Positive Control ²	1014 ± 63.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	13 ± 2.3	7 ± 0.6	11 ± 1.2	8 ± 0.9	15 ± 1.9
3.0					
10.0					
33.0					
100.0	20 ± 0.3	9 ± 2.2	10 ± 1.2	7 ± 1.2	15 ± 1.5
333.0	21 ± 1.8	8 ± 2.0	12 ± 3.7	6 ± 1.2	18 ± 1.2
1000.0	21 ± 2.7	16 ± 0.6	8 ± 0.6	5 ± 1.0	16 ± 1.5
3333.0	22 ± 3.3	13 ± 1.7	9 ± 0.9	4 ± 1.5	16 ± 2.1
10000.0	23 ± 4.1 ^P	12 ± 1.2	4 ± 1.0	4 ± 1.2	Toxic
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴					334 ± 45.1
Positive Control ³	914 ± 120.9	821 ± 34.0	319 ± 66.5	1371 ± 68.8	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7	11 ± 0.7	6 ± 2.0	12 ± 2.0	10 ± 0.9
3.0		14 ± 1.2			
10.0		14 ± 1.5	7 ± 0.6		
33.0	20 ± 4.4	27 ± 2.8	7 ± 1.3		13 ± 0.3
100.0	17 ± 0.9	34 ± 1.5	8 ± 1.5	20 ± 2.1	17 ± 4.4
333.0	16 ± 4.1	27 ± 5.9	15 ± 4.3	19 ± 2.4	11 ± 1.2
1000.0	16 ± 0.9		6 ± 0.6	17 ± 2.1	11 ± 2.3
3333.0	19 ± 1.9			12 ± 1.0	8 ± 2.3
10000.0				Toxic	
Trial Summary	Negative	Positive	Equivocal	Negative	Negative
Positive Control ⁴	704 ± 42.9	115 ± 13.2	348 ± 17.5	285 ± 12.4	772 ± 15.1
Positive Control ³					

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 0.7	7 ± 0.6	8 ± 1.2	6 ± 1.2	8 ± 1.7
33.0					8 ± 0.9
100.0	3 ± 1.3	8 ± 0.9		8 ± 0.3	5 ± 1.0
333.0	2 ± 0.6	5 ± 1.7		8 ± 2.9	3 ± 0.3
1000.0	1 ± 0.7	3 ± 1.3	11 ± 3.5	14 ± 1.8	7 ± 0.0
1667.0			7 ± 2.4		
3333.0	9 ± 2.1	8 ± 1.2	9 ± 0.3	17 ± 5.8	10 ± 1.2
6667.0			7 ± 2.2		
10000.0	11 ± 1.0 ^P	11 ± 1.5	9 ± 0.7	Toxic	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴				278 ± 79.3	161 ± 8.0
Positive Control ⁵	767 ± 202.2	784 ± 147.4	228 ± 35.3		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.7	9 ± 1.3	8 ± 0.7	18 ± 0.9
33.0	9 ± 1.7		4 ± 1.2	9 ± 0.6
100.0	10 ± 1.2	11 ± 0.9	5 ± 0.3	6 ± 1.8
333.0	10 ± 1.5	15 ± 0.6	5 ± 1.5	9 ± 1.8
1000.0	9 ± 1.2	14 ± 1.5	7 ± 2.3	9 ± 1.2
1667.0				
3333.0	8 ± 0.9	17 ± 2.8	7 ± 2.0	6 ± 2.1
6667.0				
10000.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	323 ± 44.3	269 ± 11.4	141 ± 25.1	335 ± 42.9
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10 ± 2.7	18 ± 5.8	42 ± 3.4	9 ± 3.0	32 ± 2.0
10.0		18 ± 2.3	35 ± 3.3		24 ± 1.2
33.0		19 ± 1.5	37 ± 2.4		27 ± 4.9
100.0	6 ± 1.8	18 ± 1.0	39 ± 2.3	11 ± 3.0	23 ± 2.2
167.0					
333.0	9 ± 2.2	19 ± 0.6	35 ± 2.0	9 ± 0.0	23 ± 3.1
667.0					
1000.0	6 ± 2.4	21 ± 0.9	30 ± 4.1	5 ± 0.7	26 ± 0.9
1667.0					
3333.0	0 ± 0.0			0 ± 0.0	
10000.0	0 ± 0.0 ^P			1 ± 0.3 ^P	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				612 ± 68.5	1790 ± 71.2
Positive Control ⁶	203 ± 12.5	287 ± 9.1	444 ± 30.5		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	38 ± 3.2	16 ± 2.0	14 ± 0.3	7 ± 1.7	36 ± 9.4
10.0	23 ± 4.4				
33.0	29 ± 2.9				
100.0	39 ± 2.1	21 ± 2.9		6 ± 0.9	29 ± 3.1
167.0		24 ± 0.9	13 ± 2.6		
333.0	46 ± 5.9	26 ± 4.0	20 ± 2.6	4 ± 0.7	26 ± 3.2
667.0		34 ± 4.6	23 ± 2.4		
1000.0	47 ± 4.8	39 ± 9.0	23 ± 1.8	5 ± 1.2	22 ± 0.7
1667.0		48 ± 1.2	22 ± 3.1		
3333.0				3 ± 0.9	33 ± 3.5
10000.0				1 ± 0.3 ^P	32 ± 2.9
Trial Summary	Negative	Positive	Negative	Negative	Negative
Positive Control ²	1997 ± 90.0	1837 ± 135.5	1793 ± 49.9	706 ± 74.2	768 ± 56.4
Positive Control ⁶					

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

- 1: Vehicle Control: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

**** END OF REPORT ****