

Experiment Number: 604471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: p-Benzoquinone dioxime

CAS Number: 105-11-3

Date Report Requested: 09/15/2018

Time Report Requested: 00:45:24

NTP Study Number:

604471

Study Result:

Positive

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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	145 ± 12.3	183 ± 12.0	174 ± 21.4	192 ± 12.5	168 ± 10.6
10.0	161 ± 4.9	213 ± 5.9	210 ± 7.5	231 ± 7.0	178 ± 6.2
33.0	163 ± 10.9	213 ± 4.4	197 ± 7.0	211 ± 12.3	203 ± 13.6
100.0	194 ± 9.5	276 ± 15.7	200 ± 8.1	239 ± 11.7	199 ± 3.3
333.0	285 ± 8.4	378 ± 11.7	231 ± 9.0	359 ± 11.9	228 ± 11.0
500.0	325 ± 11.5	372 ± 19.7	186 ± 9.5	313 ± 10.4	198 ± 21.9
Trial Summary	Positive	Positive	Equivocal	Positive	Equivocal
Positive Control ²			1555 ± 71.1	1636 ± 69.2	1540 ± 22.5
Positive Control ³	929 ± 29.8	1030 ± 71.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	206 ± 9.8
10.0	216 ± 5.0
33.0	251 ± 2.0
100.0	266 ± 11.7
333.0	343 ± 9.3
500.0	379 ± 41.0
Trial Summary	Positive
Positive Control ²	1462 ± 31.0
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.3	12 ± 2.4	15 ± 2.7
10.0	13 ± 0.7	15 ± 0.6	22 ± 2.0
33.0	13 ± 2.6	15 ± 0.6	18 ± 2.2
100.0	7 ± 0.6	15 ± 0.9	19 ± 2.8
333.0	10 ± 3.2	19 ± 0.9	24 ± 2.2
500.0	19 ± 2.3	14 ± 1.9	19 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control ²		240 ± 25.6	363 ± 40.3
Positive Control ³	1193 ± 35.1		

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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 ± 0.3	6 ± 0.0	3 ± 1.2	9 ± 1.2	14 ± 3.6
Vehicle Control ¹ 10.0					
10.0	10 ± 0.6	7 ± 1.2	6 ± 1.2	13 ± 2.6	15 ± 2.6
33.0					
33.0	15 ± 1.2	12 ± 1.5	5 ± 0.9	13 ± 1.2	13 ± 3.8
100.0	26 ± 0.3	5 ± 1.2	11 ± 1.0	14 ± 1.2	15 ± 4.4
100.0					
333.0					
333.0	42 ± 4.6	9 ± 0.0	16 ± 1.5	16 ± 1.9	15 ± 5.0
500.0					
500.0	28 ± 2.0	7 ± 0.3	17 ± 3.9	16 ± 1.0	16 ± 4.7
Trial Summary	Positive	Negative	Positive	Equivocal	Negative
Positive Control ²				132 ± 12.1	273 ± 9.1
Positive Control ⁴					
Positive Control ⁵	728 ± 70.7	919 ± 8.8	319 ± 121.4		

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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	5 ± 0.6	10 ± 2.1	11 ± 1.0	
Vehicle Control ¹				5 ± 0.9
10.0				7 ± 1.5
10.0	7 ± 0.6	10 ± 1.5	13 ± 0.9	
33.0				6 ± 0.6
33.0	9 ± 1.5	11 ± 0.7	11 ± 0.7	
100.0	10 ± 1.5	15 ± 0.7	14 ± 3.0	
100.0				9 ± 2.2
333.0				11 ± 1.0
333.0	7 ± 1.2	22 ± 0.9	17 ± 5.9	
500.0				13 ± 3.7
500.0	8 ± 0.6	19 ± 1.2	18 ± 2.8	
Trial Summary	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²	71 ± 3.2	135 ± 6.7	228 ± 11.5	
Positive Control ⁴				129 ± 37.4
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.2	19 ± 1.0	22 ± 2.2	24 ± 2.3	25 ± 4.0
10.0	23 ± 3.8	28 ± 0.6	35 ± 3.1	40 ± 2.7	34 ± 3.3
33.0	53 ± 3.3	49 ± 9.4	64 ± 2.3	56 ± 6.8	40 ± 3.1
100.0	109 ± 3.2	76 ± 8.1	52 ± 4.4	61 ± 4.0	46 ± 3.3
333.0	246 ± 10.2	185 ± 7.7	55 ± 8.8	71 ± 6.2	71 ± 3.8
500.0	343 ± 37.2	198 ± 37.4	59 ± 2.4	79 ± 8.5	81 ± 7.0
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			797 ± 14.7	1714 ± 14.1	1584 ± 53.6
Positive Control ⁶	498 ± 27.3	873 ± 11.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 4.4
10.0	32 ± 3.8
33.0	49 ± 3.0
100.0	61 ± 9.5
333.0	87 ± 11.9
500.0	115 ± 13.6
Trial Summary	Positive
Positive Control ²	1739 ± 144.7
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: 1.0 nmoles/L 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****