

Experiment Number: 685556

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 09/13/2018

Time Report Requested: 01:42:13

NTP Study Number:

685556

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	119 ± 4.2	170 ± 2.6	121 ± 7.8	156 ± 12.0	112 ± 6.7
100.0	115 ± 5.0	146 ± 6.2 ^P	202 ± 8.0	182 ± 3.5	143 ± 11.8
333.0	136 ± 7.5 ^P	140 ± 13.0 ^P	194 ± 3.8 ^P	184 ± 10.7	136 ± 2.9 ^P
1000.0	154 ± 6.4 ^P	177 ± 6.4 ^P	191 ± 4.4 ^P	181 ± 9.1 ^P	151 ± 8.5 ^P
3333.0	158 ± 6.2 ^P	184 ± 8.8 ^P	185 ± 7.8 ^P	159 ± 5.4 ^P	190 ± 18.4 ^P
10000.0	218 ± 24.5 ^P	233 ± 27.0 ^P	205 ± 14.0 ^P	184 ± 11.0 ^P	178 ± 12.5 ^P
Trial Summary	Weakly Positive	Equivocal	Equivocal	Negative	Weakly Positive
Positive Control ²	420 ± 7.0	365 ± 4.7			
Positive Control ³			612 ± 14.7	1703 ± 202.1	1027 ± 43.5

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	138 ± 10.6
100.0	157 ± 10.2
333.0	218 ± 11.8
1000.0	209 ± 7.2 ^P
3333.0	194 ± 12.9 ^P
10000.0	215 ± 10.7 ^P
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	1978 ± 31.5

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 0.9	26 ± 6.4	13 ± 0.6	16 ± 0.9	11 ± 1.8
100.0	22 ± 2.1	25 ± 3.8 ^p	11 ± 3.0	13 ± 2.7	9 ± 2.3
333.0	27 ± 1.5 ^p	22 ± 3.1 ^p	13 ± 1.7 ^p	16 ± 3.0	10 ± 0.9 ^p
1000.0	28 ± 5.6 ^p	30 ± 7.6 ^p	8 ± 1.5 ^p	12 ± 1.9 ^p	13 ± 2.1 ^p
3333.0	25 ± 3.5 ^p	30 ± 3.5 ^p	10 ± 2.0 ^p	13 ± 2.4 ^p	11 ± 1.7 ^p
10000.0	26 ± 6.0 ^p	25 ± 5.0 ^p	7 ± 1.5 ^p	11 ± 0.9 ^p	10 ± 2.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	554 ± 6.7	359 ± 12.5			
Positive Control ⁴			346 ± 24.7	528 ± 24.8	377 ± 16.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 0.6
100.0	14 ± 2.7
333.0	11 ± 0.9
1000.0	14 ± 0.7 ^P
3333.0	14 ± 3.0 ^P
10000.0	11 ± 0.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	606 ± 23.6

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.7	5 ± 1.2	8 ± 1.0	12 ± 3.2	9 ± 1.8
100.0	11 ± 1.2	9 ± 1.2 ^p	10 ± 1.2	12 ± 2.5	8 ± 0.9
333.0	11 ± 0.6 ^p	8 ± 1.2 ^p	16 ± 2.7 ^p	19 ± 4.5	15 ± 2.0 ^p
1000.0	13 ± 1.8 ^p	8 ± 1.2 ^p	20 ± 1.7 ^p	18 ± 2.5 ^p	17 ± 2.7 ^p
3333.0	19 ± 5.3 ^p	17 ± 2.3 ^p	24 ± 3.8 ^p	19 ± 2.7 ^p	21 ± 2.9 ^p
10000.0	28 ± 0.7 ^p	32 ± 0.9 ^p	28 ± 0.3 ^p	30 ± 3.5 ^p	30 ± 3.0 ^p
Trial Summary	Positive	Positive	Positive	Equivocal	Positive
Positive Control ⁴			234 ± 14.0	308 ± 36.0	324 ± 8.8
Positive Control ⁵	141 ± 3.2	147 ± 18.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.1
100.0	13 ± 3.2
333.0	13 ± 1.2
1000.0	12 ± 2.6 ^P
3333.0	21 ± 2.1 ^P
10000.0	27 ± 4.0 ^P
Trial Summary	Negative
Positive Control ⁴	367 ± 4.4
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	23 ± 4.9	19 ± 1.5	36 ± 3.3	36 ± 3.2	28 ± 2.0
100.0	20 ± 3.2	18 ± 3.6 ^p	40 ± 1.5	44 ± 7.4	24 ± 3.2
333.0	19 ± 2.1 ^p	29 ± 1.5 ^p	41 ± 3.5 ^p	36 ± 6.1	33 ± 8.3 ^p
1000.0	33 ± 1.7 ^p	24 ± 4.6 ^p	38 ± 4.2 ^p	46 ± 3.3 ^p	30 ± 4.6 ^p
3333.0	46 ± 6.0 ^p	37 ± 1.2 ^p	38 ± 4.4 ^p	50 ± 2.7 ^p	43 ± 4.4 ^p
10000.0	73 ± 10.6 ^p	86 ± 9.5 ^p	45 ± 2.9 ^p	41 ± 2.9 ^p	53 ± 3.8 ^p
Trial Summary	Positive	Positive	Negative	Negative	Equivocal
Positive Control ³			507 ± 21.0	1080 ± 15.6	1048 ± 40.5
Positive Control ⁶	536 ± 43.2	591 ± 76.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 0.7
100.0	30 ± 1.8
333.0	21 ± 3.2
1000.0	33 ± 3.8 ^P
3333.0	47 ± 1.8 ^P
10000.0	46 ± 0.7 ^P
Trial Summary	Negative
Positive Control ³	1503 ± 69.9
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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

**** END OF REPORT ****