

Experiment Number: 468809

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Cyclohexane

CAS Number: 110-82-7

Date Report Requested: 09/11/2018

Time Report Requested: 10:58:14

NTP Study Number:

468809

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	100 ± 5.7	92 ± 3.2	121 ± 8.5	96 ± 4.7	136 ± 8.7
33.0	94 ± 6.1	70 ± 2.7			
100.0	78 ± 2.0	65 ± 4.2	118 ± 2.6	102 ± 8.5	106 ± 6.1
333.0	65 ± 1.9	73 ± 6.2	122 ± 7.2	99 ± 8.3	116 ± 8.6
1000.0	62 ± 5.3	54 ± 4.4	115 ± 4.5	99 ± 6.0	114 ± 2.8
3333.0	69 ± 7.2	64 ± 1.8	99 ± 7.7	95 ± 10.3	102 ± 8.1
10000.0			43 ± 10.5	80 ± 9.0	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2426 ± 20.2	1950 ± 130.8	1762 ± 43.9
Positive Control ³	389 ± 40.2	307 ± 9.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	101 ± 15.9
33.0	
100.0	108 ± 4.0
333.0	101 ± 1.8
1000.0	107 ± 1.5
3333.0	112 ± 1.5
10000.0	Toxic
Trial Summary	Negative
Positive Control ²	1540 ± 140.4
Positive Control ³	

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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	5 ± 1.0	15 ± 2.6	10 ± 3.6	17 ± 1.0	4 ± 1.8
33.0	5 ± 1.0	11 ± 0.3		13 ± 2.0	
100.0	3 ± 1.0	12 ± 3.0	6 ± 1.0	13 ± 2.2	11 ± 2.4
333.0	5 ± 1.7	6 ± 2.0	6 ± 3.1	10 ± 2.0	5 ± 0.6
1000.0	1 ± 0.6	7 ± 1.5	3 ± 1.2	12 ± 2.0	2 ± 1.2
3333.0	1 ± 0.3	6 ± 0.7	2 ± 0.5	9 ± 2.5	Toxic
10000.0			0 ± 0.3		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			80 ± 5.5	157 ± 23.5	46 ± 2.8
Positive Control ³	284 ± 58.6	536 ± 35.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.8
33.0	17 ± 0.9
100.0	21 ± 1.5
333.0	13 ± 0.7
1000.0	14 ± 0.6
3333.0	11 ± 0.9
10000.0	
Trial Summary	Negative
Positive Control ⁴	61 ± 4.2
Positive Control ³	

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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	4 ± 1.0	5 ± 0.6	9 ± 1.3	9 ± 1.9	6 ± 1.5
10.0				6 ± 0.9	
33.0	6 ± 0.7	3 ± 0.7		6 ± 1.5	
100.0	4 ± 2.1	4 ± 1.5	5 ± 1.2	8 ± 1.0	9 ± 3.5
333.0	2 ± 0.9	3 ± 0.3	7 ± 2.3	Toxic	7 ± 2.1
1000.0	2 ± 1.3	3 ± 2.4	6 ± 3.5	6 ± 0.9	Toxic
3333.0	Toxic	4 ± 0.5	Toxic		1 ± 0.5
10000.0			0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			51 ± 13.4	115 ± 35.1	101 ± 42.5
Positive Control ⁵	786 ± 97.8	271 ± 50.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.6
10.0	5 ± 2.1
33.0	5 ± 1.8
100.0	6 ± 1.5
333.0	5 ± 1.8
1000.0	6 ± 1.0
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ⁴	74 ± 28.5
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 ± 2.9	16 ± 2.0	26 ± 4.1	20 ± 6.0	27 ± 1.2
33.0	16 ± 5.2	19 ± 3.8			
100.0	18 ± 2.3	12 ± 2.3	30 ± 2.5	16 ± 1.0	24 ± 2.3
333.0	15 ± 3.9	9 ± 1.2	30 ± 1.9	18 ± 1.9	35 ± 3.2
1000.0	16 ± 1.5	15 ± 2.7	29 ± 3.2	12 ± 2.3	25 ± 4.2
3333.0	12 ± 0.7	Toxic	24 ± 3.2	13 ± 0.9	24 ± 2.0
10000.0			Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1575 ± 74.0	1308 ± 94.0	1303 ± 98.0
Positive Control ⁶	172 ± 6.4	229 ± 18.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.5
33.0	
100.0	19 ± 2.4
333.0	21 ± 0.7
1000.0	18 ± 2.9
3333.0	16 ± 5.8
10000.0	16 ± 2.1
Trial Summary	Negative
Positive Control ²	762 ± 75.3
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

** END OF REPORT **