

Experiment Number: 643487

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hexamethyl-p-rosaniline chloride

CAS Number: 548-62-9

Date Report Requested: 09/11/2018

Time Report Requested: 04:51:41

NTP Study Number:

643487

Study Result:

Equivocal

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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	97 ± 6.1	104 ± 9.5	85 ± 6.5	104 ± 2.6	119 ± 5.3
0.1	95 ± 7.5	105 ± 4.7			
0.3	123 ± 10.1	108 ± 9.7	96 ± 6.9		
1.0	114 ± 6.7	134 ± 2.6	104 ± 9.8	95 ± 6.8	99 ± 6.7
3.0	78 ± 13.7 ^s	134 ± 8.1	92 ± 3.8	105 ± 10.4	90 ± 3.2
10.0	17 ± 7.2 ^s	8 ± 2.5 ^s	113 ± 2.3	112 ± 8.5	107 ± 7.5
16.0				111 ± 7.8	104 ± 3.8
33.0			64 ± 12.9 ^s	Toxic	99 ± 8.7
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²			504 ± 29.3	335 ± 6.4	839 ± 18.6
Positive Control ³	322 ± 9.3	235 ± 6.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	138 ± 6.6
0.1	
0.3	115 ± 7.3
1.0	120 ± 5.9
3.0	135 ± 10.1
10.0	143 ± 9.9
16.0	
33.0	6 ± 4.1 ^s
Trial Summary	Negative
Positive Control ²	1705 ± 35.5
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	26 ± 0.7	20 ± 2.3	5 ± 1.3	10 ± 2.5	9 ± 3.2
0.1	22 ± 5.4	20 ± 2.1			
0.3	23 ± 3.8	31 ± 2.5	7 ± 0.3		8 ± 2.3
1.0	24 ± 2.3	22 ± 4.8	9 ± 1.8	7 ± 0.7	6 ± 1.2
3.0	22 ± 4.0	21 ± 3.2	6 ± 0.9	8 ± 2.4	11 ± 2.7
10.0	0 ± 0.0 ^s	Toxic	7 ± 2.4	5 ± 0.7	8 ± 3.5
16.0				7 ± 1.2	
33.0			9 ± 2.6	5 ± 1.2	2 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	334 ± 10.6	288 ± 25.5			
Positive Control ⁴			185 ± 10.4	148 ± 14.7	396 ± 5.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.7
0.1	
0.3	
1.0	5 ± 0.9
3.0	9 ± 2.0
10.0	8 ± 2.3
16.0	8 ± 0.9
33.0	5 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	270 ± 11.2

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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 ± 0.0	3 ± 0.7	10 ± 3.2	8 ± 2.0	8 ± 1.3
0.1	8 ± 1.9	8 ± 4.0			
0.3	7 ± 0.7	8 ± 3.0	5 ± 0.3	7 ± 1.2	9 ± 0.3
1.0	8 ± 0.6	10 ± 3.0	5 ± 0.7	7 ± 0.7	7 ± 1.2
3.0	12 ± 0.3	20 ± 1.9	9 ± 1.7	12 ± 1.7	11 ± 1.7
10.0	2 ± 1.5 ^s	Toxic	19 ± 3.8	16 ± 1.3	8 ± 2.0
16.0					
33.0			30 ± 1.2	4 ± 1.2	21 ± 7.1
Trial Summary	Negative	Equivocal	Equivocal	Negative	Equivocal
Positive Control ⁴			142 ± 8.6	158 ± 3.8	400 ± 16.2
Positive Control ⁵	143 ± 15.1	145 ± 17.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.7	8 ± 2.3
0.1		
0.3		7 ± 1.3
1.0	8 ± 2.4	7 ± 0.7
3.0	6 ± 1.0	10 ± 2.2
10.0	5 ± 0.6	6 ± 0.6
16.0	9 ± 3.0	
33.0	17 ± 1.2	0 ± 0.0 ^s
Trial Summary	Equivocal	Negative
Positive Control ⁴	345 ± 6.8	346 ± 18.3
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 ± 2.0	21 ± 2.1	24 ± 3.0	26 ± 1.9	25 ± 3.0
0.1	10 ± 2.2	13 ± 2.9			
0.3	12 ± 0.3	13 ± 1.3			
1.0	13 ± 2.6	13 ± 2.5	24 ± 3.5	27 ± 2.0	27 ± 1.9
3.0	9 ± 1.9	11 ± 2.3	19 ± 4.0	34 ± 3.5	27 ± 3.5
10.0	5 ± 2.7 ^s	0 ± 0.0 ^s	32 ± 4.1	27 ± 4.3	27 ± 1.8
16.0				34 ± 4.5	31 ± 6.7
33.0			38 ± 2.9	34 ± 1.5	38 ± 2.8
100.0			6 ± 3.6 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			194 ± 9.3	291 ± 18.6	683 ± 39.6
Positive Control ⁶	707 ± 19.1	856 ± 51.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 7.2
0.1	
0.3	38 ± 3.5
1.0	31 ± 1.3
3.0	18 ± 1.5
10.0	6 ± 0.6
16.0	
33.0	0 ± 0.0 ^s
100.0	
Trial Summary	Negative
Positive Control ²	1517 ± 21.9
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****