

Experiment Number: 355136

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

G06: Ames Summary Data

Test Compound: **1,2-Dimethylhydrazine 2HCl**

CAS Number: **306-37-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **16:04:53**

NTP Study Number:

355136

Study Result:

Negative

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CAS Number: 306-37-6

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	96 ± 3.4	100 ± 18.3	120 ± 6.2	103 ± 6.1	122 ± 7.1
100.0	119 ± 6.9	86 ± 6.2	100 ± 1.3	99 ± 10.8	109 ± 6.5
333.0	123 ± 9.3	90 ± 5.5	96 ± 2.8	114 ± 8.7	94 ± 1.7
1000.0	118 ± 7.1	103 ± 2.4	110 ± 5.6	102 ± 7.5	115 ± 3.1
3333.0	128 ± 9.0	113 ± 8.8	97 ± 7.3	109 ± 6.4	108 ± 5.1
5000.0	117 ± 10.2			102 ± 1.2 ^p	
6667.0		71 ± 11.2 ^s	101 ± 2.1 ^s		98 ± 2.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	386 ± 16.1	508 ± 34.4			
Positive Control ³			1152 ± 50.2		462 ± 10.7
Positive Control ⁴					
Positive Control ⁵				364 ± 18.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	112 ± 2.4
100.0	106 ± 7.2
333.0	92 ± 5.5
1000.0	94 ± 6.9
3333.0	109 ± 2.0
5000.0	94 ± 4.4 ^p
6667.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	451 ± 40.9
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.0	18 ± 2.1	13 ± 2.3	18 ± 2.5	14 ± 1.8
100.0	30 ± 0.7	22 ± 4.7	16 ± 1.5	17 ± 1.5	13 ± 1.5
333.0	27 ± 2.8	19 ± 2.4	12 ± 1.5	16 ± 4.2	10 ± 0.3
1000.0	31 ± 0.9	15 ± 3.8	11 ± 0.3	13 ± 0.9	11 ± 0.3
3333.0	22 ± 2.7	20 ± 3.5	17 ± 3.0	20 ± 1.8	14 ± 2.1
6667.0	24 ± 1.2	11 ± 4.6 ^s	14 ± 3.0 ^s	22 ± 1.2 ^s	15 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶					82 ± 1.5
Positive Control ⁷	203 ± 7.0				
Positive Control ²		350 ± 14.9			
Positive Control ⁴					
Positive Control ⁵			331 ± 23.4	112 ± 8.0	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.3
100.0	17 ± 1.5
333.0	18 ± 1.2
1000.0	14 ± 1.0
3333.0	21 ± 3.0
6667.0	22 ± 1.5 ^s
Trial Summary	Negative
Positive Control ⁶	
Positive Control ⁷	
Positive Control ²	
Positive Control ⁴	167 ± 10.6
Positive Control ⁵	

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Test Compound: **1,2-Dimethylhydrazine 2HCl**

CAS Number: **306-37-6**

Date Report Requested: **09/13/2018**

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Strain: TA1538

Dose (ug/Plate)	Without S9	Without S9
Vehicle Control ¹	7 ± 0.6	11 ± 1.2
100.0	4 ± 0.6	
333.0	7 ± 2.4	
1000.0	8 ± 2.1	9 ± 3.0
2000.0		11 ± 3.0
3333.0	10 ± 1.2	11 ± 2.0
5000.0		16 ± 4.4
6667.0	16 ± 2.1	8 ± 3.5
7500.0		Toxic
10000.0		Toxic
Trial Summary	Equivocal	Negative
Positive Control ⁸	494 ± 62.5	848 ± 29.6

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Date Report Requested: 09/13/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	143 ± 4.3	104 ± 9.4	131 ± 7.9	183 ± 5.3	115 ± 6.8
100.0	130 ± 7.2	125 ± 7.5	118 ± 7.8	136 ± 1.5	106 ± 0.7
333.0	148 ± 4.1	107 ± 13.6	109 ± 7.8	137 ± 8.9	113 ± 7.4
1000.0	144 ± 3.7	114 ± 13.8	106 ± 8.8	133 ± 4.8	107 ± 5.9
3333.0	137 ± 2.1	111 ± 5.2	107 ± 6.9	129 ± 12.7	97 ± 6.6
6667.0	137 ± 1.7	10 ± 10.3 ^s	78 ± 6.0 ^s	122 ± 6.0 ^s	88 ± 6.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	614 ± 17.3	403 ± 10.7			
Positive Control ³					738 ± 45.7
Positive Control ⁵			2299 ± 91.3	729 ± 20.4	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	148 ± 0.6
100.0	128 ± 4.8
333.0	120 ± 7.2
1000.0	133 ± 5.4
3333.0	123 ± 3.2
6667.0	117 ± 5.9 ^s
Trial Summary	Negative
Positive Control ⁹	
Positive Control ³	
Positive Control ⁵	1160 ± 21.5

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	20 ± 3.8	20 ± 0.6	16 ± 2.0	22 ± 1.9	29 ± 3.2
100.0	19 ± 1.5	21 ± 1.3	13 ± 1.5		30 ± 2.9
333.0	20 ± 0.7	22 ± 3.7	16 ± 0.6		24 ± 3.2
1000.0	18 ± 3.8	19 ± 0.9	19 ± 1.2	22 ± 2.8	26 ± 0.3
2000.0				20 ± 3.2	
3333.0	22 ± 1.8	36 ± 1.9	37 ± 5.0	30 ± 2.3	25 ± 2.1
5000.0	24 ± 1.9			35 ± 4.3	
6667.0		27 ± 4.1	26 ± 3.5	28 ± 2.6	16 ± 2.0 ^s
7500.0				Toxic	
10000.0				Toxic	
Trial Summary	Negative	Equivocal	Equivocal	Negative	Negative
Positive Control ⁶					338 ± 17.9
Positive Control ⁴					
Positive Control ¹⁰	190 ± 12.3	364 ± 14.6	252 ± 25.4	409 ± 15.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	31 ± 5.8	30 ± 3.1	30 ± 4.3
100.0	36 ± 0.9	30 ± 3.2	29 ± 3.5
333.0	34 ± 3.3	33 ± 3.7	29 ± 6.1
1000.0	30 ± 0.7	31 ± 2.4	30 ± 4.4
2000.0			
3333.0	31 ± 1.9	27 ± 2.5	29 ± 4.2
5000.0	37 ± 4.3 ^p		26 ± 3.6 ^p
6667.0		21 ± 3.8 ^s	
7500.0			
10000.0			
Trial Summary	Negative	Negative	Negative
Positive Control ⁶		423 ± 15.4	
Positive Control ⁴	480 ± 25.0		294 ± 32.3
Positive Control ¹⁰			

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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: Water

2: 0.5 ug/Plate Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 0.4 ug/Plate 2-Aminoanthracene

7: 0.5 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 2-Nitrofluorene

9: 0.05 ug/Plate Icr-191

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****