

Experiment Number: 542795

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

G06: Ames Summary Data

Test Compound: **Methylhydrazine**

CAS Number: **60-34-4**

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

Time Report Requested: **16:52:51**

NTP Study Number:

542795

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Methylhydrazine

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Date Report Requested: 09/13/2018

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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	114 ± 0.9	127 ± 8.5	165 ± 7.1	174 ± 6.2	173 ± 3.0
1.0		112 ± 5.3		179 ± 5.8	
3.3		125 ± 4.7		173 ± 8.4	
10.0		125 ± 1.2		169 ± 3.0	
33.0	100 ± 13.1	122 ± 9.5	151 ± 4.6	152 ± 3.8	141 ± 16.5
100.0	98 ± 6.0	127 ± 16.6	145 ± 12.3	153 ± 10.7	122 ± 16.3
333.0	90 ± 22.0		114 ± 2.8		120 ± 9.3
1000.0	103 ± 5.2		132 ± 3.2		120 ± 12.0
3333.0	1 ± 0.5		112 ± 2.3		96 ± 18.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			608 ± 37.0	421 ± 14.3	801 ± 47.3
Positive Control ³	378 ± 15.7	307 ± 24.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	157 ± 8.0
1.0	162 ± 8.1
3.3	209 ± 6.6
10.0	189 ± 13.0
33.0	182 ± 14.8
100.0	158 ± 13.1
333.0	
1000.0	
3333.0	
Trial Summary	Equivocal
Positive Control ²	519 ± 12.2
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	16 ± 2.0	10 ± 1.2	17 ± 0.9	12 ± 2.5	16 ± 1.2
1.0		4 ± 0.3		9 ± 1.2	
3.3		7 ± 0.6		10 ± 1.2	
10.0		8 ± 0.9		13 ± 2.0	
33.0	12 ± 0.9	9 ± 0.9	15 ± 0.9	9 ± 1.0	16 ± 1.5
100.0	12 ± 0.5	7 ± 1.5	12 ± 1.0	9 ± 1.2	15 ± 0.9
333.0	15 ± 2.6		12 ± 1.2		15 ± 0.7
1000.0	9 ± 1.0		10 ± 2.1		14 ± 1.8
3333.0	1 ± 0.7		3 ± 0.6		4 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			60 ± 13.5	66 ± 4.9	101 ± 16.7
Positive Control ³	677 ± 45.5	367 ± 1.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.9
1.0	10 ± 1.2
3.3	9 ± 1.0
10.0	8 ± 0.9
33.0	10 ± 1.2
100.0	9 ± 1.8
333.0	
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	82 ± 9.3
Positive Control ³	

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Test Compound: Methylhydrazine

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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	3 ± 0.6	4 ± 0.6	8 ± 0.0	7 ± 0.3	5 ± 2.9
1.0		11 ± 1.2		6 ± 0.3	
3.3		11 ± 1.9		8 ± 0.7	
10.0		8 ± 0.9		10 ± 0.3	
33.0	3 ± 0.6	8 ± 2.0	7 ± 1.5	8 ± 1.5	7 ± 0.6
100.0	4 ± 1.2	6 ± 0.7	8 ± 1.8	6 ± 0.6	8 ± 1.9
333.0	Toxic		Toxic		Toxic
1000.0	5 ± 2.0		8 ± 2.8		16 ± 3.1
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			28 ± 2.2	27 ± 0.9	51 ± 7.4
Positive Control ⁴	623 ± 148.6	143 ± 14.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.7
1.0	5 ± 0.3
3.3	5 ± 0.3
10.0	8 ± 0.3
33.0	6 ± 0.3
100.0	8 ± 0.7
333.0	
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	36 ± 4.1
Positive Control ⁴	

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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	13 ± 1.2	14 ± 2.3	21 ± 3.2	23 ± 2.2	19 ± 1.3
1.0		15 ± 2.3		23 ± 2.4	
3.3		12 ± 2.6		22 ± 0.9	
10.0		20 ± 1.0		17 ± 0.6	
33.0	19 ± 2.7	21 ± 0.3	21 ± 2.4	20 ± 2.4	23 ± 1.5
100.0	12 ± 1.8	16 ± 2.8	17 ± 1.2	24 ± 3.8	18 ± 2.3
333.0	Toxic		21 ± 0.0		Toxic
1000.0	Toxic		17 ± 1.8		20 ± 1.0
3333.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			406 ± 39.2	418 ± 36.3	598 ± 37.4
Positive Control ⁵	235 ± 36.3	240 ± 24.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.2
1.0	16 ± 0.3
3.3	19 ± 1.2
10.0	19 ± 2.0
33.0	21 ± 1.5
100.0	19 ± 2.4
333.0	
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	479 ± 38.7
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****