

Experiment Number: A50634

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hydergine

CAS Number: 8067-24-1

Date Report Requested: 09/17/2018

Time Report Requested: 03:51:36

NTP Study Number:

A50634

Study Result:

Negative

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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	112 ± 7.9	131 ± 3.2	130 ± 10.4	135 ± 4.9	127 ± 3.1
33.0	127 ± 5.5	124 ± 3.7	124 ± 5.9	144 ± 8.3	113 ± 7.5
100.0	118 ± 5.3	117 ± 1.2	120 ± 9.0	148 ± 16.4	136 ± 3.1
333.0	116 ± 3.8	120 ± 3.2	126 ± 8.3	145 ± 10.9	128 ± 0.3
1000.0	103 ± 9.0	119 ± 7.2	124 ± 6.9	128 ± 11.7	117 ± 10.4
3333.0	10 ± 1.8 ^s	104 ± 4.2 ^s	112 ± 11.1 ^s	18 ± 4.6 ^s	97 ± 9.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					859 ± 22.9
Positive Control ³			757 ± 25.9		
Positive Control ⁴				828 ± 30.6	
Positive Control ⁵	1166 ± 94.4	903 ± 11.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 5.8
33.0	117 ± 11.1
100.0	126 ± 5.5
333.0	130 ± 9.9
1000.0	110 ± 15.4
3333.0	13 ± 2.1 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	857 ± 9.3
Positive Control ⁴	
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	18 ± 0.7	12 ± 2.0	14 ± 2.5	19 ± 0.3	18 ± 1.8
33.0	19 ± 2.8	17 ± 3.4	14 ± 3.2	12 ± 2.1	16 ± 2.1
100.0	18 ± 1.5	17 ± 3.7	12 ± 1.2	16 ± 1.5	15 ± 1.5
333.0	13 ± 2.2	14 ± 2.5	16 ± 3.3	16 ± 1.2	10 ± 2.3
1000.0	15 ± 1.2	15 ± 2.2	15 ± 1.8	17 ± 1.5	13 ± 2.9
3333.0	12 ± 0.3 ^s	9 ± 1.5 ^s	10 ± 1.5 ^s	8 ± 0.3 ^s	8 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					145 ± 4.2
Positive Control ⁵	1234 ± 21.1	955 ± 13.0			
Positive Control ⁴			126 ± 10.5		
Positive Control ⁶				400 ± 14.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.9
33.0	17 ± 1.3
100.0	10 ± 1.3
333.0	18 ± 3.0
1000.0	10 ± 2.8
3333.0	10 ± 1.8 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	
Positive Control ⁴	475 ± 36.1
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	100 ± 9.9	84 ± 7.2	138 ± 3.5	120 ± 7.3	187 ± 10.0
1.0			125 ± 10.0		129 ± 3.3
3.0		96 ± 5.8	124 ± 10.6		164 ± 15.3
10.0		103 ± 4.8	121 ± 4.7		173 ± 4.7
33.0	138 ± 6.6	106 ± 8.2	123 ± 3.4	116 ± 4.4	140 ± 15.4
100.0	152 ± 4.9	98 ± 5.8	107 ± 7.8	112 ± 4.2	135 ± 8.4
333.0	144 ± 16.5	115 ± 2.3		125 ± 3.8	
1000.0	122 ± 3.2			139 ± 9.2	
3333.0	99 ± 9.9 ^s			113 ± 21.8 ^s	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴					627 ± 20.0
Positive Control ⁷	541 ± 9.5	571 ± 27.5	513 ± 5.5	518 ± 8.2	

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	131 ± 6.0	110 ± 4.4	181 ± 10.8	126 ± 9.3	123 ± 8.7
1.0				170 ± 6.6	
3.0			209 ± 17.0	132 ± 13.1	
10.0			197 ± 6.5	152 ± 3.7	
33.0	129 ± 3.3	160 ± 35.3	160 ± 19.3	132 ± 12.7	123 ± 10.2
100.0	138 ± 4.7	185 ± 3.0	175 ± 33.3	155 ± 6.4	132 ± 3.2
333.0	112 ± 7.9	118 ± 22.3	174 ± 14.4		132 ± 6.6
1000.0	118 ± 7.2	110 ± 14.8			131 ± 6.2
3333.0	91 ± 7.3 ^s	98 ± 6.9 ^s			104 ± 13.8 ^s
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					713 ± 11.3
Positive Control ³	631 ± 21.4			678 ± 16.5	
Positive Control ⁴		755 ± 30.9	658 ± 32.1		
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	106 ± 15.8	114 ± 2.4
1.0		
3.0		125 ± 1.5
10.0		121 ± 9.0
33.0	128 ± 15.6	129 ± 5.7
100.0	139 ± 1.2	130 ± 7.3
333.0	126 ± 8.0	141 ± 15.9
1000.0	133 ± 11.2	
3333.0	112 ± 8.8 ^s	
Trial Summary	Equivocal	Negative
Positive Control ²		
Positive Control ³	751 ± 20.3	876 ± 41.8
Positive Control ⁴		
Positive Control ⁷		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 4.6	15 ± 2.3	30 ± 2.9	31 ± 2.5	22 ± 2.9
33.0	24 ± 2.1	20 ± 2.4	24 ± 2.7	34 ± 3.0	25 ± 4.3
100.0	26 ± 2.8	16 ± 1.2	24 ± 4.9	32 ± 3.5	20 ± 6.1
333.0	26 ± 4.4	9 ± 0.9	18 ± 3.5	28 ± 2.1	16 ± 1.0
1000.0	31 ± 4.7	13 ± 1.2	25 ± 3.5	30 ± 0.3	26 ± 2.8
3333.0	20 ± 3.0 ^s	11 ± 3.0 ^s	21 ± 3.4 ^s	27 ± 2.4 ^s	15 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					725 ± 21.5
Positive Control ³			640 ± 11.9		
Positive Control ⁸	682 ± 50.2	359 ± 22.6			
Positive Control ⁴				557 ± 19.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 1.5
33.0	33 ± 0.7
100.0	32 ± 4.3
333.0	31 ± 4.4
1000.0	31 ± 5.6
3333.0	24 ± 2.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	680 ± 13.3
Positive Control ⁸	
Positive Control ⁴	

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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: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **