

Experiment Number: 561780

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

G06: Ames Summary Data

Test Compound: **DL-amphetamine sulfate**

CAS Number: 60-13-9

Date Report Requested: 09/13/2018

Time Report Requested: 22:49:24

NTP Study Number:

561780

Study Result:

Equivocal

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Mutagenicity**G06: Ames Summary Data**

Test Compound: DL-amphetamine sulfate

CAS Number: 60-13-9

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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	117 ± 8.2	137 ± 1.8	128 ± 3.2	152 ± 5.8	114 ± 9.0
100.0	127 ± 7.9	154 ± 7.1	141 ± 4.3	146 ± 8.1	146 ± 6.1
333.0	120 ± 7.7	149 ± 15.3	123 ± 4.4	136 ± 2.5	138 ± 4.4
1000.0	140 ± 1.9	162 ± 11.2	146 ± 4.9	149 ± 7.1	127 ± 12.4
3333.0	136 ± 5.5	153 ± 8.4	147 ± 15.3	149 ± 9.4	151 ± 8.4
10000.0	135 ± 10.4	149 ± 9.2	161 ± 5.8	163 ± 1.2	141 ± 12.8
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²	402 ± 3.5	266 ± 16.0			
Positive Control ³			726 ± 14.5	890 ± 69.6	1367 ± 140.5

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	143 ± 5.4
100.0	156 ± 8.3
333.0	173 ± 8.3
1000.0	166 ± 10.8
3333.0	167 ± 3.5
10000.0	159 ± 4.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1678 ± 18.1

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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 ± 1.5	16 ± 6.2	12 ± 2.4	6 ± 0.9	11 ± 2.7
100.0	28 ± 4.2	15 ± 3.5	8 ± 3.2	8 ± 0.6	12 ± 2.3
333.0	25 ± 4.5	13 ± 3.2	7 ± 0.7	6 ± 1.7	12 ± 3.8
1000.0	23 ± 5.0	13 ± 1.0	10 ± 2.8	10 ± 2.5	10 ± 2.4
3333.0	28 ± 6.2	14 ± 3.5	9 ± 2.4	6 ± 1.5	15 ± 1.2
10000.0	34 ± 2.5	13 ± 2.8	12 ± 2.3	11 ± 2.2	12 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	421 ± 7.8	196 ± 7.4			
Positive Control ⁴			180 ± 25.5	131 ± 30.2	368 ± 21.7

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Test Compound: DL-amphetamine sulfate
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.9
100.0	11 ± 3.9
333.0	9 ± 1.3
1000.0	12 ± 1.8
3333.0	9 ± 2.4
10000.0	7 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	268 ± 10.8

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Mutagenicity**G06: Ames Summary Data**

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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 ± 0.6	3 ± 0.3	6 ± 0.7	5 ± 0.9	7 ± 0.7
100.0	5 ± 1.8	7 ± 0.9	10 ± 1.5	8 ± 2.0	13 ± 4.0
333.0	6 ± 1.2	6 ± 0.9	13 ± 0.6	7 ± 0.9	12 ± 1.7
1000.0	8 ± 1.9	8 ± 3.2	9 ± 2.1	6 ± 0.9	8 ± 1.0
3333.0	9 ± 1.7	7 ± 0.9	11 ± 2.3	6 ± 2.3	10 ± 1.9
10000.0	12 ± 2.1	8 ± 1.2	13 ± 0.3	10 ± 1.3	10 ± 3.1
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴			269 ± 9.4	238 ± 15.8	351 ± 16.2
Positive Control ⁵	126 ± 26.4	157 ± 15.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.8
100.0	6 ± 2.8
333.0	6 ± 2.0
1000.0	5 ± 0.7
3333.0	7 ± 0.3
10000.0	7 ± 1.7
Trial Summary	Negative
Positive Control ⁴	456 ± 19.4
Positive Control ⁵	

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Test Compound: DL-amphetamine sulfate

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 4% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 3.2	18 ± 4.3	19 ± 1.2	33 ± 4.0	23 ± 6.6
100.0	21 ± 1.3	18 ± 4.6	34 ± 3.6	31 ± 4.4	32 ± 0.6
333.0	19 ± 3.6	21 ± 3.2	44 ± 1.3	40 ± 0.9	26 ± 4.3
1000.0	20 ± 2.7	16 ± 0.6	40 ± 1.5	41 ± 2.3	25 ± 2.6
3333.0	18 ± 1.9	19 ± 2.6	50 ± 2.9	50 ± 4.2	36 ± 1.9
10000.0	19 ± 3.8	23 ± 2.6	43 ± 1.5	55 ± 1.2	34 ± 1.3
Trial Summary	Negative	Negative	Positive	Equivocal	Negative
Positive Control ³			0 ± 0.0	888 ± 69.7	640 ± 33.5
Positive Control ⁶	674 ± 13.1	538 ± 124.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 20% Rat S9	With 4% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 3.6	21 ± 1.5	19 ± 3.2	20 ± 1.5	37 ± 2.0
100.0	32 ± 2.8	33 ± 5.7	29 ± 6.1	31 ± 4.2	38 ± 2.9
333.0	26 ± 3.5	35 ± 1.3	37 ± 6.7	38 ± 4.1	30 ± 1.8
1000.0	30 ± 3.5	30 ± 3.3	36 ± 2.2	31 ± 2.7	39 ± 5.2
3333.0	31 ± 3.2	41 ± 1.2	38 ± 3.6	35 ± 3.2	44 ± 4.6
10000.0	31 ± 3.8	40 ± 1.5	45 ± 0.6	36 ± 2.6	47 ± 6.6
Trial Summary	Negative	Equivocal	Weakly Positive	Negative	Negative
Positive Control ³	675 ± 44.2	863 ± 31.6	0 ± 0.0	0 ± 0.0	1378 ± 81.9
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 20% Hamster S9
Vehicle Control ¹	23 ± 1.0	35 ± 2.4	25 ± 2.6	27 ± 2.6
100.0	27 ± 1.5	26 ± 1.2	30 ± 2.4	33 ± 3.5
333.0	32 ± 4.5	28 ± 1.7	35 ± 8.7	30 ± 2.1
1000.0	27 ± 4.0	26 ± 3.7	37 ± 2.6	36 ± 0.3
3333.0	41 ± 1.9	32 ± 3.0	40 ± 3.2	39 ± 6.1
10000.0	37 ± 4.9	30 ± 3.5	38 ± 3.7	41 ± 1.5
Trial Summary	Equivocal	Negative	Negative	Negative
Positive Control ³	1211 ± 135.0	1440 ± 56.6	1276 ± 36.5	0 ± 0.0
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: Water

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****