

Experiment Number: 232351

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

G06: Ames Summary Data

Test Compound: **Ephedrine sulfate**

CAS Number: 134-72-5

Date Report Requested: **09/15/2018**

Time Report Requested: **03:53:05**

NTP Study Number:

232351

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Ephedrine sulfate

CAS Number: 134-72-5

Date Report Requested: 09/15/2018

Time Report Requested: 03:53:05

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	104 ± 4.3	96 ± 8.7	118 ± 4.0	75 ± 3.5	102 ± 11.0
100.0	98 ± 4.4	92 ± 5.0	104 ± 5.2	77 ± 5.8	100 ± 5.3
333.0	106 ± 4.2	97 ± 6.7	115 ± 2.1	75 ± 2.2	98 ± 7.5
1000.0	113 ± 3.5	94 ± 6.1	104 ± 3.0	74 ± 6.4	91 ± 4.7
3333.0	104 ± 5.4	88 ± 3.8	90 ± 5.0	81 ± 2.9	91 ± 3.8
10000.0	100 ± 4.7 ^s	96 ± 5.1 ^s	98 ± 4.3	85 ± 6.4	101 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1861 ± 85.9
Positive Control ³			2503 ± 40.8		
Positive Control ⁴				1073 ± 33.0	
Positive Control ⁵	1093 ± 31.9	952 ± 17.4			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	94 ± 9.0
100.0	80 ± 3.4
333.0	88 ± 5.2
1000.0	81 ± 1.3
3333.0	78 ± 1.2
10000.0	78 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1484 ± 32.2
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	20 ± 1.5	27 ± 3.8	13 ± 3.5	14 ± 2.0	11 ± 0.3
100.0	25 ± 2.2	26 ± 1.5	9 ± 2.8	20 ± 2.0	15 ± 1.7
333.0	20 ± 4.7	37 ± 2.8	12 ± 0.9	16 ± 0.6	11 ± 2.7
1000.0	21 ± 0.3	34 ± 3.8	10 ± 1.5	9 ± 0.9	7 ± 3.1
3333.0	18 ± 2.0 ^s	30 ± 2.7	10 ± 1.8	16 ± 3.5	11 ± 1.3
10000.0	19 ± 1.0 ^s	36 ± 2.7 ^s	10 ± 3.2 ^s	11 ± 1.3 ^s	15 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					109 ± 8.4
Positive Control ³			151 ± 11.3		
Positive Control ⁴				133 ± 6.1	
Positive Control ⁵	910 ± 24.9	866 ± 30.0			

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Test Compound: **Ephedrine sulfate**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.0
100.0	14 ± 3.8
333.0	16 ± 1.0
1000.0	13 ± 0.9
3333.0	16 ± 0.6
10000.0	17 ± 2.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	286 ± 7.4
Positive Control ⁵	

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Date Report Requested: 09/15/2018

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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	89 ± 7.3	94 ± 4.7	126 ± 6.7	181 ± 3.8	124 ± 8.1
100.0	81 ± 5.7	107 ± 6.2	126 ± 4.2	179 ± 2.8	130 ± 3.8
333.0	88 ± 5.6	99 ± 3.6	129 ± 9.5	185 ± 8.8	117 ± 2.9
1000.0	83 ± 3.8	101 ± 5.9	131 ± 3.7	190 ± 11.7	119 ± 6.8
3333.0	81 ± 5.8 ^s	98 ± 4.4 ^s	125 ± 4.6 ^s	161 ± 6.9 ^s	119 ± 0.6
10000.0	39 ± 5.0 ^s	86 ± 8.7 ^s	125 ± 4.9 ^s	161 ± 4.2 ^s	119 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1043 ± 4.0
Positive Control ³			1420 ± 37.3		
Positive Control ⁴				541 ± 35.4	
Positive Control ⁶	555 ± 15.0	577 ± 27.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 4.6
100.0	160 ± 2.3
333.0	147 ± 1.7
1000.0	150 ± 11.4
3333.0	154 ± 2.4 ^s
10000.0	148 ± 3.1 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	989 ± 19.6
Positive Control ⁶	

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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	17 ± 1.2	17 ± 0.3	29 ± 3.2	31 ± 2.4	32 ± 4.8
100.0	14 ± 2.1	15 ± 3.2	28 ± 0.9	30 ± 0.9	26 ± 0.6
333.0	19 ± 1.3	19 ± 2.2	30 ± 4.7	31 ± 1.8	27 ± 3.8
1000.0	18 ± 0.6	16 ± 2.3	34 ± 2.3	32 ± 2.3	25 ± 5.5
3333.0	19 ± 1.7	14 ± 1.2	29 ± 0.3	36 ± 2.0	25 ± 3.5
10000.0	16 ± 0.9	21 ± 0.3	31 ± 3.8	35 ± 3.0	30 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1387 ± 78.0
Positive Control ³			1819 ± 53.2		
Positive Control ⁴				875 ± 1.7	
Positive Control ⁷	1479 ± 36.0	1741 ± 11.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	36 ± 3.2
100.0	34 ± 2.2
333.0	27 ± 3.5
1000.0	38 ± 2.0
3333.0	35 ± 4.0
10000.0	41 ± 5.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1366 ± 27.7
Positive Control ⁷	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****