

Experiment Number: 241189

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Epoxy-3-butene

CAS Number: 930-22-3

Date Report Requested: 09/10/2018

Time Report Requested: 19:20:20

NTP Study Number:

241189

Study Result:

Positive

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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	111 ± 8.5	117 ± 6.4	124 ± 7.2	123 ± 4.4	132 ± 7.1
33.0	130 ± 2.8	145 ± 3.4			
100.0	161 ± 5.9	172 ± 5.8	161 ± 13.4	145 ± 6.4	145 ± 10.5
333.0	282 ± 3.2	334 ± 6.1	190 ± 11.4	187 ± 3.6	196 ± 4.8
1000.0	481 ± 13.9	729 ± 42.6	312 ± 20.5	405 ± 13.1	318 ± 15.6
3333.0	758 ± 32.0	976 ± 24.5	578 ± 8.7	950 ± 34.8	579 ± 34.5
10000.0			1011 ± 13.7	1537 ± 45.2	811 ± 67.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					826 ± 66.0
Positive Control ³			447 ± 27.7	502 ± 24.0	
Positive Control ⁴	436 ± 5.4	376 ± 18.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	127 ± 7.3
33.0	
100.0	129 ± 1.2
333.0	154 ± 9.5
1000.0	310 ± 13.3
3333.0	831 ± 30.3
10000.0	1240 ± 38.4
Trial Summary	Positive
Positive Control ²	1060 ± 75.7
Positive Control ³	
Positive Control ⁴	

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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	19 ± 0.9	17 ± 1.2	12 ± 2.1	13 ± 1.9	11 ± 2.3
33.0	33 ± 1.8	22 ± 3.5			
100.0	53 ± 5.2	34 ± 3.1	27 ± 3.0	23 ± 6.4	34 ± 7.1
333.0	81 ± 2.3	87 ± 15.0	45 ± 4.6	44 ± 5.5	63 ± 0.9
1000.0	222 ± 29.8	162 ± 32.4	122 ± 8.8	116 ± 4.7	129 ± 9.0
3333.0	233 ± 30.8	270 ± 18.8	402 ± 81.4	413 ± 45.1	238 ± 17.1
10000.0			556 ± 119.8	241 ± 121.2	490 ± 115.8 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³					214 ± 11.7
Positive Control ⁴	465 ± 27.6	360 ± 9.9			
Positive Control ⁵			132 ± 8.5	135 ± 6.1	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 3.3
33.0	
100.0	19 ± 1.2
333.0	29 ± 6.2
1000.0	93 ± 10.1
3333.0	206 ± 23.6
10000.0	263 ± 17.1
Trial Summary	Positive
Positive Control ³	242 ± 7.5
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	100 ± 5.4	177 ± 0.9	169 ± 10.9	189 ± 7.9	184 ± 9.9
33.0	131 ± 14.7	215 ± 15.2			
100.0	183 ± 7.2	276 ± 10.9	188 ± 11.6	243 ± 10.7	187 ± 6.6
333.0	222 ± 10.2	429 ± 23.9	217 ± 10.6	246 ± 12.0	189 ± 10.1
1000.0	445 ± 36.0	1005 ± 14.3	261 ± 20.0	404 ± 5.5	278 ± 14.0
3333.0	613 ± 24.4	1016 ± 15.3	518 ± 11.0	675 ± 34.8	424 ± 60.4
10000.0			688 ± 47.9	554 ± 69.3	646 ± 13.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					532 ± 27.4
Positive Control ³			428 ± 10.8	443 ± 9.3	
Positive Control ⁶	604 ± 12.6				
Positive Control ⁷		946 ± 80.9			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	176 ± 17.4
33.0	
100.0	209 ± 21.4
333.0	216 ± 10.5
1000.0	301 ± 5.2
3333.0	691 ± 56.1
10000.0	631 ± 41.3
Trial Summary	Positive
Positive Control ²	722 ± 27.4
Positive Control ³	
Positive Control ⁶	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.2	28 ± 2.0	39 ± 1.5
33.0	22 ± 2.6		
100.0	23 ± 5.0	29 ± 1.2	30 ± 5.5
333.0	24 ± 0.3	35 ± 2.4	33 ± 6.8
1000.0	32 ± 2.3	33 ± 1.3	27 ± 1.5
3333.0	19 ± 5.9 ^s	40 ± 5.0	43 ± 3.3
10000.0		49 ± 0.0	36 ± 3.5
Trial Summary	Negative	Equivocal	Negative
Positive Control ²			534 ± 46.2
Positive Control ³		335 ± 17.5	
Positive Control ⁸	835 ± 91.9		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****