

Experiment Number: 065663

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Epibromohydrin

CAS Number: 3132-64-7

Date Report Requested: 09/10/2018

Time Report Requested: 18:22:08

NTP Study Number:

065663

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	112 ± 0.7	99 ± 6.1	119 ± 7.8	102 ± 4.8	100 ± 4.2
3.0	102 ± 5.2	159 ± 20.1	112 ± 5.8	116 ± 0.9	124 ± 9.2
10.0	107 ± 14.7	179 ± 3.9	109 ± 11.6	126 ± 6.7	109 ± 9.0
33.0	183 ± 8.9	269 ± 5.3	128 ± 9.0	158 ± 5.6	146 ± 6.4
100.0	591 ± 8.7	434 ± 2.7	285 ± 20.0	217 ± 9.1	384 ± 78.1
333.0	1125 ± 23.2	663 ± 16.7	699 ± 13.1	601 ± 22.2	890 ± 127.0
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			587 ± 19.0	461 ± 4.7	2093 ± 100.6
Positive Control ³	439 ± 4.0	363 ± 10.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	98 ± 5.1
3.0	128 ± 11.6
10.0	163 ± 8.6
33.0	244 ± 10.7
100.0	437 ± 21.0
333.0	1013 ± 25.2
Trial Summary	Positive
Positive Control ²	1313 ± 44.0
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	28 ± 4.1	24 ± 1.7	10 ± 2.5	8 ± 0.3	10 ± 1.8
3.0	26 ± 2.4	61 ± 10.3	14 ± 1.0	10 ± 1.7	9 ± 2.5
10.0	25 ± 2.6	88 ± 10.3	10 ± 3.2	18 ± 3.0	8 ± 0.7
33.0	56 ± 8.7	198 ± 8.9	19 ± 4.6	36 ± 2.3	20 ± 3.3
100.0	334 ± 34.5	363 ± 9.3	111 ± 8.3	105 ± 5.0	166 ± 20.5
333.0	711 ± 42.5	617 ± 20.1	409 ± 16.0	339 ± 9.0	518 ± 55.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³	380 ± 25.6	432 ± 13.9			
Positive Control ⁴			213 ± 7.2	174 ± 11.6	404 ± 10.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.3
3.0	20 ± 0.3
10.0	29 ± 1.5
33.0	68 ± 6.0
100.0	189 ± 18.9
333.0	510 ± 30.3
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	483 ± 20.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10 ± 1.7	6 ± 1.7	7 ± 0.9	8 ± 0.3	6 ± 1.2
3.0	11 ± 1.9			10 ± 2.3	
10.0	7 ± 1.5			7 ± 2.3	
33.0	7 ± 1.5	5 ± 1.7		6 ± 1.0	7 ± 2.5
100.0	5 ± 1.5	5 ± 1.9	6 ± 0.6	6 ± 1.0	6 ± 1.3
333.0	9 ± 2.4	6 ± 0.3	6 ± 0.9	9 ± 2.0	6 ± 0.9
666.0			6 ± 1.2		
1000.0		8 ± 1.3	7 ± 0.3		24 ± 2.5
1666.0			6 ± 0.3		
3333.0		4 ± 1.2 ^s			0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ⁴				148 ± 6.4	133 ± 13.4
Positive Control ⁵	362 ± 10.3	316 ± 7.4	145 ± 22.0		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.7	8 ± 0.7	7 ± 2.5	5 ± 0.7
3.0		8 ± 2.2		
10.0		5 ± 0.7		
33.0		7 ± 0.7	6 ± 1.5	
100.0	3 ± 0.6	6 ± 0.6	5 ± 1.2	5 ± 1.7
333.0	5 ± 0.3	7 ± 0.0	8 ± 0.6	5 ± 1.0
666.0	11 ± 2.8			8 ± 2.0
1000.0	8 ± 2.1		17 ± 2.5	7 ± 0.3
1666.0	12 ± 1.5			13 ± 3.3
3333.0			0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ⁴	139 ± 8.0	387 ± 17.5	429 ± 13.7	508 ± 24.3
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 2.9	18 ± 0.7	18 ± 0.7	24 ± 2.6	23 ± 1.0
3.0	17 ± 1.0			26 ± 2.7	
10.0	18 ± 3.2			27 ± 1.2	
33.0	14 ± 3.2	14 ± 1.5		21 ± 1.3	19 ± 5.2
100.0	19 ± 3.5	17 ± 2.2	13 ± 1.9	27 ± 1.5	25 ± 2.6
333.0	42 ± 8.7	25 ± 2.0	33 ± 3.5	43 ± 5.8	45 ± 3.2
666.0			30 ± 6.0		
1000.0		62 ± 8.2	32 ± 3.5		77 ± 7.0
1666.0			36 ± 2.4		
3333.0		0 ± 0.0 ^s			0 ± 0.0 ^s
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Positive
Positive Control ²				355 ± 13.0	417 ± 17.9
Positive Control ⁶	826 ± 15.6	640 ± 15.0	1064 ± 5.0		

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Test Compound: Epibromohydrin

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 2.1	28 ± 2.1	27 ± 1.8	34 ± 3.7
3.0		34 ± 3.3		
10.0		25 ± 5.4		
33.0		28 ± 5.9	28 ± 2.7	
100.0	19 ± 3.0	28 ± 6.1	30 ± 1.8	21 ± 2.2
333.0	41 ± 2.0	45 ± 6.2	46 ± 3.5	25 ± 2.6
666.0	58 ± 2.8			32 ± 3.3
1000.0	70 ± 4.6		98 ± 4.3	41 ± 1.2
1666.0	60 ± 3.8			40 ± 0.6
3333.0			0 ± 0.0 ^s	
Trial Summary	Positive	Equivocal	Positive	Negative
Positive Control ²	493 ± 23.4	1822 ± 32.7	1193 ± 28.5	2031 ± 79.1
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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****