

Experiment Number: 971355

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

G06: Ames Summary Data

Test Compound: **Glycidol**

CAS Number: **556-52-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **02:16:00**

NTP Study Number:

971355

Study Result:

Positive

Experiment Number: 971355

G06: Ames Summary Data

Date Report Requested: 09/18/2018

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

Time Report Requested: 02:16:00

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	113 ± 3.9	92 ± 4.9	101 ± 6.4	101 ± 8.0	94 ± 4.9
1.0		84 ± 5.8		95 ± 4.6	
10.0		146 ± 5.2		140 ± 7.9	
100.0	482 ± 16.2	292 ± 7.3	472 ± 14.0	378 ± 9.0	463 ± 10.6
333.0	1041 ± 19.7		1041 ± 11.5		1015 ± 8.8
1000.0	1808 ± 32.7	1018 ± 11.4	1951 ± 9.0	1269 ± 26.4	1632 ± 10.2
3333.0	3075 ± 117.2		2973 ± 9.4		2910 ± 135.4
10000.0	3332 ± 63.5	2088 ± 2.2 ^s	3435 ± 14.5	2465 ± 41.0 ^s	3422 ± 44.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1303 ± 61.9
Positive Control ³			1779 ± 21.8	1368 ± 25.4	
Positive Control ⁴	1353 ± 28.5	712 ± 7.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	88 ± 9.5
1.0	96 ± 4.8
10.0	117 ± 8.5
100.0	391 ± 14.0
333.0	
1000.0	1302 ± 38.7 ^s
3333.0	
10000.0	2487 ± 59.8 ^s
Trial Summary	Positive
Positive Control ²	843 ± 32.8
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	30 ± 2.9	21 ± 1.5	13 ± 2.7	7 ± 2.6	11 ± 2.2
1.0		20 ± 4.6		15 ± 2.1	
10.0		72 ± 11.1		70 ± 11.0	
100.0	473 ± 1.8	477 ± 15.8	533 ± 16.3	516 ± 14.4	522 ± 16.2
333.0	935 ± 21.5		1193 ± 13.8		1194 ± 24.6
1000.0	1329 ± 26.3	1338 ± 21.2	2218 ± 61.2	1360 ± 31.4	2231 ± 62.4
3333.0	2303 ± 64.4		2929 ± 41.6		2867 ± 46.9
10000.0	1831 ± 39.2	1238 ± 23.4 ^s	981 ± 26.9	1336 ± 84.0 ^s	1697 ± 20.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					101 ± 11.4
Positive Control ³			141 ± 11.6	76 ± 1.3	
Positive Control ⁴	847 ± 17.6	915 ± 21.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6
1.0	10 ± 0.7
10.0	57 ± 5.2
100.0	443 ± 3.4
333.0	
1000.0	1422 ± 30.7
3333.0	
10000.0	1930 ± 41.0 ^s
Trial Summary	Positive
Positive Control ²	68 ± 2.1
Positive Control ³	
Positive Control ⁴	

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Test Compound: Glycidol

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Date Report Requested: 09/18/2018

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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	111 ± 10.0	102 ± 6.4	124 ± 1.9	136 ± 1.5	112 ± 5.0
1.0		99 ± 3.8		149 ± 3.7	
10.0		99 ± 3.8		152 ± 11.6	
100.0	119 ± 3.5	109 ± 6.7	161 ± 12.7	179 ± 3.2	175 ± 15.6
333.0	230 ± 2.8		265 ± 10.5		275 ± 13.3
1000.0	383 ± 2.8	317 ± 8.8	457 ± 15.3	439 ± 11.4	519 ± 15.4
3333.0	903 ± 45.6		976 ± 53.2		1131 ± 43.1
10000.0	888 ± 16.6	452 ± 2.1 ^s	842 ± 85.8	998 ± 9.0 ^s	963 ± 74.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					930 ± 45.0
Positive Control ³			1318 ± 35.7	910 ± 43.3	
Positive Control ⁵	501 ± 14.5	617 ± 24.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	117 ± 4.1
1.0	120 ± 7.7
10.0	115 ± 7.8
100.0	172 ± 6.9
333.0	
1000.0	455 ± 4.7
3333.0	
10000.0	1215 ± 15.9 ^s
Trial Summary	Positive
Positive Control ²	549 ± 31.7
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 0.3	17 ± 0.9	36 ± 1.2	26 ± 1.5	35 ± 1.3
1.0		16 ± 2.1		29 ± 3.2	
10.0		21 ± 2.0		28 ± 1.5	
100.0	21 ± 4.7	17 ± 3.5	31 ± 1.8	33 ± 5.3	32 ± 4.1
333.0	22 ± 2.5		37 ± 3.5		48 ± 4.7
1000.0	29 ± 2.3	20 ± 3.0	44 ± 2.3	42 ± 2.7	43 ± 2.7
3333.0	40 ± 3.5		59 ± 3.1		60 ± 5.7
10000.0	44 ± 2.1	35 ± 0.9 ^s	49 ± 4.1	39 ± 4.5	58 ± 8.3
Trial Summary	Weakly Positive	Equivocal	Equivocal	Equivocal	Weakly Positive
Positive Control ²					925 ± 13.2
Positive Control ³			1264 ± 34.8	1376 ± 40.4	
Positive Control ⁶	1716 ± 40.7	1279 ± 22.7			

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Date Report Requested: 09/18/2018
Time Report Requested: 02:16:00

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 3.2
1.0	33 ± 2.9
10.0	25 ± 6.5
100.0	38 ± 3.8
333.0	
1000.0	48 ± 7.5
3333.0	
10000.0	53 ± 8.0 ^s
Trial Summary	Weakly Positive
Positive Control ²	818 ± 3.9
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****