

Experiment Number: 278371

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

**G06: Ames Summary Data**

Test Compound: **Glycidol**

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

Date Report Requested: **09/11/2018**

Time Report Requested: **14:39:04**

**NTP Study Number:**

278371

**Study Result:**

Positive

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Glycidol

CAS Number: 556-52-5

Date Report Requested: 09/11/2018

Time Report Requested: 14:39:04

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	98 ± 7.7	127 ± 6.4	140 ± 4.5	151 ± 14.2	123 ± 7.9
1.0		132 ± 7.9		126 ± 8.1	
3.0		138 ± 8.7		139 ± 0.3	
10.0		180 ± 1.0		222 ± 8.4	
33.0		253 ± 9.5		303 ± 3.2	
100.0	409 ± 24.8	410 ± 11.3	465 ± 17.5	533 ± 3.5	498 ± 15.5
333.0	714 ± 59.4		732 ± 9.6		792 ± 9.8
1000.0	1150 ± 7.2		1232 ± 8.2		1179 ± 37.9
3333.0	1445 ± 44.6		1622 ± 35.2		1594 ± 30.8
10000.0	678 ± 45.5		1337 ± 36.9		1316 ± 22.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>			530 ± 16.3	810 ± 26.8	1380 ± 23.3
Positive Control <sup>3</sup>	487 ± 10.5	353 ± 10.3			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	136 ± 15.0
1.0	137 ± 6.7
3.0	157 ± 18.3
10.0	211 ± 11.2
33.0	296 ± 6.7
100.0	486 ± 18.3
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1580 ± 96.6
Positive Control <sup>3</sup>	

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Test Compound: Glycidol

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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 <sup>1</sup>	23 ± 6.8	20 ± 3.0	11 ± 3.3	7 ± 0.9	9 ± 2.0
1.0		33 ± 3.2		19 ± 3.3	
3.0		53 ± 2.6		33 ± 4.0	
10.0		98 ± 6.7		90 ± 1.2	
33.0		194 ± 4.8		218 ± 4.2	
100.0	495 ± 14.1	459 ± 17.7	541 ± 23.2	470 ± 8.1	531 ± 23.3
333.0	776 ± 27.1		858 ± 6.7		873 ± 19.1
1000.0	1044 ± 36.8		1204 ± 59.3		1148 ± 25.8
3333.0	1137 ± 11.4		1429 ± 18.4		1366 ± 41.8
10000.0	181 ± 101.7 <sup>s</sup>		1315 ± 34.7		1304 ± 69.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>3</sup>	540 ± 15.3	402 ± 14.3			
Positive Control <sup>4</sup>			154 ± 9.3	195 ± 27.7	356 ± 17.7

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 2.2
1.0	14 ± 2.7
3.0	33 ± 5.7
10.0	92 ± 9.8
33.0	221 ± 14.7
100.0	478 ± 11.0
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	518 ± 29.9

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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 <sup>1</sup>	10 ± 2.2	5 ± 0.9	10 ± 1.2	4 ± 0.3	9 ± 1.9
100.0	9 ± 2.8		15 ± 1.5		9 ± 2.6
333.0	8 ± 2.9	7 ± 1.2	7 ± 1.2	7 ± 0.7	18 ± 1.7
1000.0	15 ± 0.3	12 ± 2.0	10 ± 2.2	15 ± 1.5	23 ± 2.8
1666.0		13 ± 2.3		19 ± 5.4	
3333.0	21 ± 3.5	15 ± 1.9	22 ± 2.2	23 ± 1.8	28 ± 2.3
6666.0		16 ± 3.4		13 ± 3.0	
10000.0	8 ± 1.3		5 ± 0.9		8 ± 0.3
Trial Summary	Weakly Positive	Weakly Positive	Equivocal	Positive	Positive
Positive Control <sup>4</sup>			189 ± 11.7	171 ± 5.2	434 ± 32.2
Positive Control <sup>5</sup>	237 ± 54.5	145 ± 3.2			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.6
100.0	
333.0	8 ± 1.9
1000.0	7 ± 0.3
1666.0	12 ± 3.3
3333.0	22 ± 3.8
6666.0	22 ± 3.8
10000.0	
Trial Summary	Positive
Positive Control <sup>4</sup>	435 ± 11.9
Positive Control <sup>5</sup>	

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Test Compound: Glycidol

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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 <sup>1</sup>	16 ± 0.7	16 ± 1.2	21 ± 1.5	21 ± 2.7	25 ± 2.6
100.0	32 ± 3.5		26 ± 3.2		20 ± 0.7
333.0	28 ± 4.4	22 ± 2.7	36 ± 6.5	30 ± 1.9	19 ± 3.8
1000.0	34 ± 3.0	25 ± 3.7	36 ± 2.7	43 ± 7.8	32 ± 2.1
1666.0		30 ± 3.5		34 ± 3.1	
3333.0	50 ± 3.4	34 ± 3.2	64 ± 1.5	42 ± 5.5	47 ± 5.5
6666.0		42 ± 1.5		47 ± 2.5	
10000.0	43 ± 6.2		50 ± 7.2		15 ± 1.2
Trial Summary	Positive	Positive	Positive	Positive	Weakly Positive
Positive Control <sup>2</sup>			863 ± 31.6	488 ± 31.1	1276 ± 36.5
Positive Control <sup>6</sup>	863 ± 17.0	718 ± 16.7			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	21 ± 1.5
100.0	
333.0	32 ± 4.2
1000.0	40 ± 6.4
1666.0	44 ± 5.3
3333.0	58 ± 2.0
6666.0	57 ± 2.6
10000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1334 ± 104.6
Positive Control <sup>6</sup>	

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### **LEGEND**

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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 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 \*\***