

Experiment Number: 911372

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Diborane

CAS Number: 19287-45-7

Date Report Requested: 09/17/2018

Time Report Requested: 02:05:22

**NTP Study Number:**

911372

**Study Result:**

Negative

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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 <sup>1</sup>	119 ± 2.1	119 ± 6.4	101 ± 8.7	121 ± 4.1	100 ± 5.5
100.0	125 ± 12.6	129 ± 8.2	128 ± 10.8	141 ± 7.2	99 ± 1.5
333.3	110 ± 13.3	116 ± 2.6	127 ± 4.0	130 ± 11.1	103 ± 8.4
1000.0	121 ± 11.0	114 ± 7.1	106 ± 2.9	135 ± 4.9	138 ± 9.1
3333.3	114 ± 6.5	145 ± 2.7	113 ± 5.4	122 ± 3.5	116 ± 4.0
10000.0	119 ± 7.9	112 ± 9.5	134 ± 4.5	135 ± 10.4	120 ± 8.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	402 ± 44.8	250 ± 4.4			
Positive Control <sup>3</sup>			800 ± 18.5	885 ± 24.6	1290 ± 9.4

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	121 ± 8.6
100.0	122 ± 6.0
333.3	122 ± 7.0
1000.0	106 ± 4.7
3333.3	118 ± 5.0
10000.0	126 ± 4.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	2559 ± 112.3

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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 <sup>1</sup>	11 ± 1.2	16 ± 0.7	9 ± 2.2	9 ± 1.7	6 ± 0.7
100.0	21 ± 3.2	16 ± 2.4	14 ± 3.0	8 ± 0.9	11 ± 0.7
333.3	18 ± 0.7	14 ± 0.9	9 ± 2.4	9 ± 1.5	10 ± 2.0
1000.0	19 ± 0.3	16 ± 0.3	12 ± 3.2	9 ± 2.6	9 ± 0.6
3333.3	20 ± 0.3	17 ± 2.4	11 ± 1.2	8 ± 0.9	10 ± 2.9
10000.0	18 ± 1.7	15 ± 1.9	13 ± 0.3	7 ± 0.9	7 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	153 ± 18.0	148 ± 11.3			
Positive Control <sup>4</sup>			306 ± 22.5	328 ± 24.0	360 ± 10.4

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 2.6
100.0	7 ± 0.3
333.3	7 ± 0.7
1000.0	7 ± 0.6
3333.3	7 ± 0.3
10000.0	7 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	571 ± 49.3

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Test Compound: Diborane

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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>	5 ± 1.9	5 ± 1.5	13 ± 1.5	9 ± 3.0	10 ± 1.5
100.0	13 ± 2.0	6 ± 0.9	18 ± 0.6	6 ± 1.8	15 ± 1.7
333.3	15 ± 6.4	10 ± 2.5	17 ± 1.2	6 ± 1.2	14 ± 1.5
1000.0	10 ± 1.5	5 ± 0.9	18 ± 2.2	6 ± 1.3	16 ± 5.3
3333.3	11 ± 1.3	4 ± 0.7	17 ± 2.0	3 ± 1.5	15 ± 2.5
10000.0	6 ± 4.1	5 ± 0.0	17 ± 0.9	5 ± 0.7	16 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			192 ± 3.9	226 ± 3.1	340 ± 15.7
Positive Control <sup>5</sup>	131 ± 13.5	193 ± 54.9			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.9
100.0	6 ± 0.6
333.3	5 ± 0.9
1000.0	5 ± 1.5
3333.3	3 ± 0.3
10000.0	5 ± 1.0
Trial Summary	Negative
Positive Control <sup>4</sup>	459 ± 3.0
Positive Control <sup>5</sup>	

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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>	31 ± 2.9	37 ± 8.6	43 ± 3.6	39 ± 3.0	38 ± 5.0
100.0	36 ± 3.2	30 ± 3.3	49 ± 4.5	37 ± 3.7	44 ± 6.9
333.3	33 ± 1.5	27 ± 3.3	48 ± 5.2	34 ± 4.2	34 ± 2.4
1000.0	30 ± 1.5	34 ± 5.3	41 ± 4.0	39 ± 5.2	40 ± 0.6
3333.3	30 ± 0.6	30 ± 1.5	42 ± 3.8	38 ± 6.4	41 ± 4.4
10000.0	30 ± 1.5	17 ± 0.6	45 ± 4.0	31 ± 0.6	38 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			543 ± 68.0	635 ± 30.4	964 ± 27.2
Positive Control <sup>6</sup>	346 ± 12.7	723 ± 22.6			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	39 ± 3.3
100.0	32 ± 5.4
333.3	38 ± 2.4
1000.0	36 ± 4.0
3333.3	37 ± 2.9
10000.0	39 ± 5.2
Trial Summary	Negative
Positive Control <sup>3</sup>	2148 ± 234.8
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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***