

Experiment Number: 217556

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

G06: Ames Summary Data

Test Compound: **Diazinon**

CAS Number: **333-41-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **20:57:39**

NTP Study Number:

217556

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 4.9	162 ± 5.5	136 ± 9.2	147 ± 7.5	122 ± 7.7
100.0	126 ± 6.8	149 ± 4.9	142 ± 5.4	146 ± 4.2	124 ± 7.5
333.0	117 ± 11.6	139 ± 9.7	135 ± 3.5	141 ± 14.4	147 ± 3.8
1000.0	112 ± 8.2	156 ± 9.9	134 ± 2.3	150 ± 14.5	134 ± 10.1
3333.0	105 ± 0.6	127 ± 10.5	133 ± 10.1	140 ± 14.5	121 ± 6.3
10000.0	100 ± 4.5	152 ± 5.2	143 ± 5.2	133 ± 5.1	125 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					760 ± 50.1
Positive Control ³	330 ± 7.7	475 ± 31.0			
Positive Control ⁴			434 ± 19.1	397 ± 29.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	155 ± 7.8
100.0	158 ± 3.7
333.0	160 ± 5.2
1000.0	156 ± 5.8
3333.0	148 ± 7.2
10000.0	154 ± 8.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	494 ± 42.0

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.6	23 ± 2.0	11 ± 1.5	20 ± 2.3	10 ± 1.2
100.0	15 ± 1.5	17 ± 0.7	7 ± 1.2	14 ± 0.9	13 ± 1.7
333.0	15 ± 1.9	19 ± 3.2	10 ± 0.7	16 ± 1.0	14 ± 1.8
1000.0	17 ± 1.0	19 ± 5.1	13 ± 1.5	21 ± 0.3	13 ± 1.2
3333.0	19 ± 2.7	23 ± 3.9	14 ± 2.0	20 ± 0.3	14 ± 1.2
10000.0	20 ± 4.0	19 ± 0.7	11 ± 1.5	18 ± 4.2	11 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					286 ± 10.9
Positive Control ³	281 ± 19.0	473 ± 24.0			
Positive Control ⁵			129 ± 2.5	94 ± 4.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.5
100.0	12 ± 0.3
333.0	16 ± 0.3
1000.0	22 ± 4.5
3333.0	16 ± 0.3
10000.0	16 ± 4.0
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	201 ± 24.1

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 2.0	146 ± 1.8	153 ± 1.9	174 ± 1.2	120 ± 0.3
100.0	125 ± 12.5	152 ± 10.0	175 ± 4.7	165 ± 6.0	131 ± 4.5
333.0	122 ± 7.0	163 ± 0.5	173 ± 3.0	192 ± 4.8	139 ± 5.0
1000.0	120 ± 3.5	151 ± 5.2	181 ± 6.4	191 ± 6.5	149 ± 2.3
3333.0	116 ± 7.8	146 ± 9.5	175 ± 8.7	207 ± 1.5	143 ± 10.4
10000.0	117 ± 3.5	126 ± 20.8	179 ± 10.4	194 ± 8.4	140 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					517 ± 17.1
Positive Control ⁴			354 ± 8.7		
Positive Control ⁵				281 ± 11.8	
Positive Control ⁶	340 ± 16.5	320 ± 8.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	175 ± 5.8
100.0	154 ± 14.4
333.0	165 ± 9.5
1000.0	155 ± 8.8
3333.0	157 ± 10.4
10000.0	122 ± 22.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	346 ± 13.6
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.0	28 ± 3.7	29 ± 2.0	32 ± 3.0	24 ± 1.5
100.0	20 ± 1.2	31 ± 2.4	25 ± 1.5	33 ± 3.6	30 ± 6.4
333.0	16 ± 2.6	29 ± 2.0	26 ± 2.5	37 ± 0.9	28 ± 2.2
1000.0	18 ± 2.2	26 ± 2.7	25 ± 1.2	28 ± 2.0	27 ± 5.9
3333.0	17 ± 1.2	27 ± 4.2	24 ± 1.0	33 ± 2.1	23 ± 1.3
10000.0	20 ± 2.3	31 ± 3.3	24 ± 2.0	33 ± 4.4	22 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					502 ± 27.0
Positive Control ⁴			258 ± 8.4	106 ± 4.5	
Positive Control ⁷	784 ± 20.9	1050 ± 74.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	38 ± 3.9
100.0	32 ± 3.0
333.0	38 ± 5.3
1000.0	34 ± 2.1
3333.0	30 ± 1.8
10000.0	40 ± 4.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	198 ± 17.1
Positive Control ⁷	

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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 Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****