

Experiment Number: 962732

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

G06: Ames Summary Data

Test Compound: **2,4-Dinitrophenol**

CAS Number: 51-28-5

Date Report Requested: **09/17/2018**

Time Report Requested: **21:42:50**

NTP Study Number:

962732

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	142 ± 0.6	114 ± 21.9	111 ± 0.6	147 ± 2.7	93 ± 10.1
3.0		105 ± 2.1	111 ± 8.8		121 ± 6.0
10.0	140 ± 4.3	110 ± 3.2	109 ± 12.8	158 ± 6.9	114 ± 7.8
33.0	132 ± 7.3	102 ± 13.0	115 ± 7.3	154 ± 22.1	105 ± 23.5
100.0	110 ± 6.7	78 ± 3.5	125 ± 15.2	164 ± 1.7	115 ± 13.8
333.0	91 ± 5.5	84 ± 2.2	102 ± 14.7	163 ± 19.6	47 ± 3.0
666.0	63 ± 12.5			88 ± 3.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					471 ± 6.8
Positive Control ³			375 ± 23.8		
Positive Control ⁴	670 ± 2.9	538 ± 11.4			
Positive Control ⁵				361 ± 16.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	165 ± 7.3
3.0	
10.0	155 ± 2.1
33.0	178 ± 16.5
100.0	167 ± 6.9
333.0	162 ± 16.4
666.0	95 ± 21.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	454 ± 16.0
Positive Control ⁴	
Positive Control ⁵	

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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	18 ± 5.3	14 ± 0.9	10 ± 0.6	20 ± 3.5	15 ± 3.5
3.0		16 ± 1.3	7 ± 1.3		11 ± 1.7
10.0	22 ± 3.5	18 ± 1.5	13 ± 1.2	16 ± 2.2	7 ± 1.0
33.0	18 ± 2.1	14 ± 1.5	11 ± 1.8	14 ± 0.7	8 ± 0.3
100.0	22 ± 4.7	11 ± 1.2	8 ± 1.7	13 ± 0.9	8 ± 0.6
333.0	14 ± 0.7	8 ± 1.5	6 ± 0.9	6 ± 2.2	5 ± 1.5
666.0	6 ± 1.3			7 ± 1.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					327 ± 7.0
Positive Control ⁴	424 ± 11.8	457 ± 6.1			
Positive Control ⁶			186 ± 25.2		
Positive Control ⁷				124 ± 1.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.9
3.0	
10.0	11 ± 2.8
33.0	11 ± 0.7
100.0	18 ± 3.2
333.0	9 ± 1.7
666.0	3 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	251 ± 14.3
Positive Control ⁷	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.3	12 ± 2.8	14 ± 2.5
10.0	8 ± 1.2	14 ± 0.9	9 ± 0.3
33.0	9 ± 2.4	12 ± 2.2	11 ± 1.2
100.0	10 ± 1.5	10 ± 1.9	13 ± 0.6
333.0	8 ± 1.0	9 ± 1.7	10 ± 1.8
666.0	5 ± 0.3	4 ± 0.7	3 ± 1.0
Trial Summary	Negative	Negative	Negative
Positive Control ³			91 ± 28.2
Positive Control ⁶		23 ± 1.8	
Positive Control ⁸	245 ± 31.2		

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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	158 ± 9.6	108 ± 17.5	164 ± 5.8	196 ± 0.9	142 ± 8.6
3.0		121 ± 7.8	182 ± 5.0		179 ± 2.5
10.0	157 ± 9.0	119 ± 5.9	186 ± 7.0	203 ± 2.4	176 ± 6.4
33.0	160 ± 6.4	131 ± 14.8	185 ± 6.1	198 ± 6.1	156 ± 14.0
100.0	166 ± 13.9	110 ± 5.5	195 ± 12.0	174 ± 6.4	147 ± 8.4
333.0	116 ± 3.5	6 ± 3.5	67 ± 5.5	116 ± 29.4	98 ± 14.8
666.0	Toxic			0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					491 ± 47.1
Positive Control ³			385 ± 19.1		
Positive Control ⁶				332 ± 10.5	
Positive Control ⁸	893 ± 70.9	429 ± 5.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	197 ± 4.5
3.0	
10.0	204 ± 2.6
33.0	205 ± 11.0
100.0	197 ± 7.3
333.0	110 ± 10.2
666.0	22 ± 9.1
Trial Summary	Negative
Positive Control ²	
Positive Control ³	426 ± 33.7
Positive Control ⁶	
Positive Control ⁸	

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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	19 ± 1.2	15 ± 3.5	27 ± 0.7	34 ± 2.0	34 ± 6.8
3.0		16 ± 1.5	26 ± 5.2		29 ± 3.7
10.0	17 ± 1.0	11 ± 2.0	27 ± 1.5	36 ± 6.2	29 ± 1.2
33.0	17 ± 1.8	17 ± 3.2	29 ± 1.0	34 ± 3.3	33 ± 2.8
100.0	18 ± 1.2	14 ± 3.8	27 ± 2.4	42 ± 4.3	23 ± 3.0
333.0	20 ± 0.6	15 ± 2.1	33 ± 1.7	46 ± 3.8	28 ± 5.3
666.0	18 ± 0.9			25 ± 1.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					536 ± 35.9
Positive Control ³			362 ± 17.7	79 ± 2.6	
Positive Control ⁹	682 ± 32.8	614 ± 20.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	37 ± 2.6
3.0	
10.0	44 ± 0.6
33.0	37 ± 3.7
100.0	35 ± 2.3
333.0	37 ± 4.1
666.0	24 ± 4.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	217 ± 18.8
Positive Control ⁹	

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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 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****