

Experiment Number: **G07036**

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

G06: Ames Summary Data

Test Compound: **ortho-Phthalaldehyde**

CAS Number: **643-79-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **22:06:27**

NTP Study Number:

G07036

Study Result:

Positive

Experiment Number: G07036

Test Type: Genetic Toxicology - Bacterial
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Test Compound: ortho-Phthalaldehyde

CAS Number: 643-79-8

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	104 ± 3.8	98 ± 1.3	116 ± 6.6	145 ± 3.5
0.5	100 ± 11.0			
1.0	108 ± 3.0			
5.0	110 ± 7.8	124 ± 2.0		
10.0	155 ± 5.5	147 ± 8.0	139 ± 5.2	
25.0	224 ± 2.2	191 ± 15.5	129 ± 2.7	
50.0		58 ± 5.5	127 ± 3.2	140 ± 2.3
100.0		0 ± 0.0	152 ± 2.6	157 ± 1.9
200.0			162 ± 14.6	136 ± 3.0
300.0				62 ± 8.4
400.0				1 ± 1.0
Trial Summary	Positive	Positive	Negative	Negative
Positive Control ²	599 ± 29.4	443 ± 15.0		
Positive Control ³			771 ± 34.0	680 ± 15.4

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	40 ± 3.5	37 ± 1.3	41 ± 2.3	46 ± 3.7
0.5	40 ± 4.1			
1.0	47 ± 2.8			
5.0	55 ± 1.2	40 ± 0.7		
10.0	53 ± 0.3	39 ± 0.9	36 ± 3.3	62 ± 2.6
25.0	19 ± 3.5	31 ± 4.7	37 ± 2.6	49 ± 2.4
50.0		43 ± 4.4	32 ± 2.3	61 ± 2.9
100.0		0 ± 0.0	27 ± 0.9	55 ± 4.3
200.0			28 ± 1.5	25 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³			1061 ± 146.2	861 ± 70.7
Positive Control ⁴	560 ± 36.1	564 ± 10.7		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	228 ± 19.7	176 ± 14.9	194 ± 21.7	205 ± 8.0
0.5	230 ± 5.6			
1.0	254 ± 20.2			
5.0	244 ± 7.3	175 ± 12.4		
10.0	285 ± 7.5	200 ± 5.2	194 ± 13.6	248 ± 8.1
25.0	77 ± 6.7	207 ± 4.4	194 ± 25.5	241 ± 14.5
50.0		252 ± 7.5	198 ± 5.4	245 ± 13.3
100.0		81 ± 12.7	224 ± 28.3	251 ± 8.4
200.0			223 ± 9.4	264 ± 14.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵			913 ± 63.6	641 ± 24.8
Positive Control ⁶	667 ± 29.2	799 ± 52.0		

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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: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****