

Experiment Number: 436106

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

G06: Ames Summary Data

Test Compound: **Diethyl phthalate**

CAS Number: **117-84-0**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:16:20**

NTP Study Number:

436106

Study Result:

Negative

Experiment Number: 436106

Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**Test Compound: Dioctyl phthalate
CAS Number: 117-84-0

Date Report Requested: 09/10/2018

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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 ¹	119 ± 4.4	114 ± 4.3	148 ± 4.1	103 ± 5.4	140 ± 6.7
100.0	154 ± 9.1	124 ± 10.9	117 ± 2.4	109 ± 11.7	126 ± 1.0
333.0	134 ± 3.2	103 ± 3.8	125 ± 5.4	105 ± 10.7	118 ± 6.7
1000.0	132 ± 4.9	105 ± 4.0	115 ± 8.5	110 ± 0.6	119 ± 11.1
3333.0	149 ± 7.1	97 ± 7.0	115 ± 5.5	101 ± 7.2	127 ± 6.7
10000.0	112 ± 3.4	111 ± 7.9	129 ± 7.8	107 ± 12.4	113 ± 7.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	434 ± 3.7	331 ± 13.6			
Positive Control ³			735 ± 22.3	551 ± 3.5	1796 ± 23.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	118 ± 5.0
100.0	120 ± 4.7
333.0	105 ± 6.9
1000.0	109 ± 5.7
3333.0	105 ± 2.6
10000.0	100 ± 3.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1290 ± 45.3

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Mutagenicity**G06: Ames Summary Data**Test Compound: Dioctyl phthalate
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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 ¹	30 ± 3.5	24 ± 2.3	17 ± 0.6	12 ± 1.3	14 ± 0.7
100.0	32 ± 0.9	23 ± 4.0	17 ± 3.8	11 ± 1.2	9 ± 2.8
333.0	29 ± 3.3	21 ± 5.7	18 ± 1.2	7 ± 2.5	13 ± 2.4
1000.0	31 ± 3.6	22 ± 4.0	12 ± 2.7	8 ± 2.4	9 ± 2.1
3333.0	23 ± 4.0	19 ± 2.9	16 ± 1.7	12 ± 2.3	8 ± 2.3
10000.0	25 ± 4.4	17 ± 1.5	16 ± 1.8	7 ± 0.7	12 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	427 ± 7.1	209 ± 16.2			
Positive Control ⁴				279 ± 18.0	536 ± 12.8
Positive Control ⁵			277 ± 7.1		

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Test Compound: Dioctyl phthalate

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.0
100.0	13 ± 2.0
333.0	6 ± 1.2
1000.0	12 ± 2.2
3333.0	10 ± 1.8
10000.0	10 ± 2.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	359 ± 24.8
Positive Control ⁵	

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Mutagenicity**G06: Ames Summary Data**Test Compound: Dioctyl phthalate
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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 ¹	10 ± 2.7	7 ± 0.0	20 ± 0.9	10 ± 2.5	8 ± 2.0
100.0	6 ± 1.5	6 ± 1.5	17 ± 1.9	11 ± 1.8	6 ± 1.7
333.0	5 ± 0.3	5 ± 2.0	13 ± 3.2	8 ± 2.4	7 ± 1.0
1000.0	9 ± 1.8	7 ± 0.9	13 ± 2.5	5 ± 0.6	9 ± 2.0
3333.0	9 ± 2.9	7 ± 0.9	12 ± 3.2	10 ± 2.2	10 ± 2.5
10000.0	6 ± 1.5	4 ± 1.2	17 ± 0.9	9 ± 3.7	6 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			167 ± 14.8	244 ± 17.8	500 ± 5.5
Positive Control ⁶	172 ± 4.7	269 ± 14.7			

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Test Compound: Dioctyl phthalate
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7
100.0	6 ± 0.3
333.0	7 ± 0.6
1000.0	9 ± 2.0
3333.0	6 ± 2.8
10000.0	5 ± 0.7
Trial Summary	Negative
Positive Control ⁴	345 ± 15.0
Positive Control ⁶	

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**Test Compound: Diocetyl phthalate
CAS Number: 117-84-0

Date Report Requested: 09/10/2018

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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 ¹	24 ± 2.0	13 ± 0.9	34 ± 1.5	25 ± 0.9	31 ± 3.2
100.0	24 ± 4.3	14 ± 1.7	35 ± 4.1	30 ± 3.3	29 ± 5.3
333.0	22 ± 2.0	13 ± 2.6	39 ± 2.1	29 ± 1.9	31 ± 2.7
1000.0	21 ± 2.1	18 ± 1.8	33 ± 2.5	26 ± 1.2	31 ± 2.5
3333.0	20 ± 0.3	18 ± 2.1	30 ± 1.5	17 ± 2.7	35 ± 3.8
10000.0	23 ± 3.2	18 ± 1.5	37 ± 2.3	20 ± 2.4	31 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			563 ± 13.9	382 ± 27.0	1514 ± 107.5
Positive Control ⁷	724 ± 7.1	621 ± 56.6			

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Test Compound: Dioctyl phthalate
CAS Number: 117-84-0

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.0
100.0	33 ± 1.8
333.0	29 ± 5.3
1000.0	29 ± 1.9
3333.0	30 ± 4.7
10000.0	26 ± 3.8
Trial Summary	Negative
Positive Control ³	1027 ± 53.1
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 9-Aminoacridine

6: 50.0 ug/Plate 9-Aminoacridine

7: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****