

Experiment Number: 026376

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diisononyl phthalate

CAS Number: 28553-12-0

Date Report Requested: 09/14/2018

Time Report Requested: 13:35:03

NTP Study Number:

026376

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 ¹	112 ± 5.8	116 ± 7.8	114 ± 6.0	114 ± 6.9	106 ± 2.3
100.0	112 ± 8.5	98 ± 10.1	120 ± 5.6	103 ± 11.5	121 ± 10.6
333.0	117 ± 2.7	84 ± 13.1	111 ± 1.3	92 ± 2.4	103 ± 8.2
1000.0	117 ± 5.2	108 ± 16.4	122 ± 7.0	104 ± 2.6	120 ± 7.8
3333.0	104 ± 3.5	93 ± 18.2	104 ± 9.7	99 ± 4.5	109 ± 2.3
10000.0	122 ± 7.6 ^p	95 ± 14.7	111 ± 1.8 ^p	103 ± 4.8 ^p	99 ± 7.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	414 ± 9.4	361 ± 3.2			
Positive Control ³			455 ± 11.5	1075 ± 61.0	1578 ± 41.2

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	135 ± 6.9
100.0	127 ± 1.2
333.0	97 ± 6.0
1000.0	110 ± 7.8
3333.0	99 ± 14.4
10000.0	99 ± 4.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1316 ± 178.5

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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	27 ± 3.8	35 ± 4.6	10 ± 2.8	9 ± 2.3	17 ± 1.7
100.0	33 ± 3.3	32 ± 3.0	9 ± 3.2	8 ± 2.0	16 ± 1.5
333.0	38 ± 9.0	33 ± 1.8	10 ± 1.2	8 ± 2.0	12 ± 3.5
1000.0	35 ± 3.0	31 ± 1.3	11 ± 2.1	10 ± 2.2	11 ± 2.0
3333.0	35 ± 3.7	38 ± 2.6	8 ± 2.0	10 ± 1.5	13 ± 2.6
10000.0	31 ± 2.6 ^p	28 ± 1.8 ^p	9 ± 2.5 ^p	10 ± 1.2 ^p	9 ± 1.8 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	501 ± 3.0	449 ± 32.9			
Positive Control ⁴			246 ± 24.7	209 ± 9.0	534 ± 3.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.5
100.0	11 ± 2.9
333.0	11 ± 2.3
1000.0	8 ± 2.3
3333.0	8 ± 1.9
10000.0	11 ± 2.6 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	564 ± 13.0

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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	6 ± 1.3	5 ± 1.5	9 ± 1.8	7 ± 2.1	7 ± 2.9
100.0	5 ± 1.0	4 ± 0.6	8 ± 2.4	8 ± 1.7	7 ± 3.0
333.0	5 ± 2.0	7 ± 1.3	11 ± 1.9	7 ± 1.2	10 ± 0.3
1000.0	5 ± 0.6	6 ± 1.9	6 ± 0.6	5 ± 0.3	5 ± 1.5
3333.0	5 ± 1.5	4 ± 0.9	10 ± 2.0	8 ± 0.0	9 ± 1.7
10000.0	5 ± 0.9 ^p	6 ± 2.0 ^p	7 ± 0.9 ^p	8 ± 1.7 ^p	6 ± 0.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			127 ± 2.1	210 ± 1.8	287 ± 13.7
Positive Control ⁵	414 ± 93.3	181 ± 11.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.7
100.0	6 ± 1.9
333.0	5 ± 0.9
1000.0	7 ± 0.9
3333.0	8 ± 2.3
10000.0	7 ± 1.2 ^p
Trial Summary	Negative
Positive Control ⁴	357 ± 66.4
Positive Control ⁵	

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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	19 ± 2.9	20 ± 3.5	29 ± 5.0	28 ± 0.9	33 ± 2.1
100.0	14 ± 3.2	14 ± 0.3	29 ± 0.9	23 ± 2.5	23 ± 3.8
333.0	18 ± 1.7	15 ± 3.2	27 ± 1.7	22 ± 4.2	31 ± 4.4
1000.0	20 ± 2.3	16 ± 0.3	24 ± 3.2	25 ± 3.2	26 ± 2.4
3333.0	20 ± 3.8	17 ± 2.2	24 ± 2.7	20 ± 3.2	24 ± 4.9
10000.0	15 ± 3.4 ^p	15 ± 1.5 ^p	26 ± 3.8 ^p	25 ± 5.0 ^p	30 ± 3.1 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			427 ± 63.3	919 ± 31.5	1493 ± 10.8
Positive Control ⁶	818 ± 37.7	876 ± 40.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.3
100.0	29 ± 0.7
333.0	27 ± 1.5
1000.0	25 ± 2.3
3333.0	22 ± 3.5
10000.0	27 ± 1.2 ^P
Trial Summary	Negative
Positive Control ³	1543 ± 78.5
Positive Control ⁶	

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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: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

**** END OF REPORT ****