

Experiment Number: 393790

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

G06: Ames Summary Data

Test Compound: **Diphenyl oxide**

CAS Number: **101-84-8**

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

Time Report Requested: **10:49:05**

NTP Study Number:

393790

Study Result:

Negative

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Test Compound: Diphenyl oxide

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Date Report Requested: 09/14/2018

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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	107 ± 7.1	110 ± 5.0	95 ± 2.6	94 ± 3.2	84 ± 5.2
3.3	89 ± 2.3	122 ± 9.5	79 ± 6.7	100 ± 8.2	92 ± 9.5
10.0	89 ± 3.2	123 ± 11.6	84 ± 3.5	110 ± 3.5	96 ± 2.5
33.3	80 ± 2.7	113 ± 7.1	96 ± 9.0	118 ± 10.9	90 ± 8.8
100.0	60 ± 14.3 ^s	127 ± 14.4 ^s	104 ± 0.9	107 ± 2.7	92 ± 7.8
333.3	Toxic	Toxic	67 ± 0.3 ^s	96 ± 4.2	114 ± 10.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1022 ± 31.8	765 ± 59.6	1960 ± 98.5
Positive Control ³	465 ± 9.8	457 ± 5.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	113 ± 2.1
3.3	122 ± 7.3
10.0	124 ± 7.8
33.3	126 ± 5.5
100.0	114 ± 6.6
333.3	54 ± 5.5 ^s
Trial Summary	Negative
Positive Control ²	1380 ± 36.4
Positive Control ³	

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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	24 ± 1.8	36 ± 1.5	15 ± 0.9	17 ± 4.6	9 ± 0.9
3.3	20 ± 2.9	32 ± 2.9	12 ± 1.2	13 ± 3.2	11 ± 0.3
10.0	19 ± 4.6	30 ± 4.7	11 ± 0.9	18 ± 1.5	10 ± 0.7
33.3	22 ± 2.8	32 ± 3.5	11 ± 0.3	18 ± 1.2	12 ± 1.8
100.0	19 ± 3.3	35 ± 3.4	11 ± 1.0	18 ± 2.1	13 ± 0.9
333.3	Toxic	17 ± 6.8 ^s	8 ± 0.9 ^s	14 ± 1.3	9 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	324 ± 24.5	376 ± 5.7			
Positive Control ⁴			211 ± 6.6	321 ± 44.2	223 ± 7.9

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.5
3.3	16 ± 2.3
10.0	18 ± 0.9
33.3	12 ± 2.0
100.0	17 ± 2.2
333.3	6 ± 1.5 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	306 ± 6.4

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Test Compound: Diphenyl oxide

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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	14 ± 2.5	17 ± 1.5	21 ± 2.2	36 ± 3.7	21 ± 1.2
3.3	15 ± 2.4	15 ± 5.8	20 ± 2.9	37 ± 2.6	22 ± 2.0
10.0	13 ± 1.2	23 ± 4.2	23 ± 4.1	33 ± 3.9	17 ± 2.6
33.3	9 ± 1.0	12 ± 1.5	15 ± 2.7	41 ± 5.5	19 ± 2.1
100.0	8 ± 1.0	4 ± 0.9	17 ± 1.5	28 ± 1.5	16 ± 1.5
333.3	4 ± 1.5 ^s	18 ± 4.0 ^s	12 ± 0.9 ^s	17 ± 2.1	18 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			282 ± 25.4	319 ± 28.4	439 ± 24.2
Positive Control ⁵	171 ± 46.5	308 ± 8.0			

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Date Report Requested: 09/14/2018
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	40 ± 1.7
3.3	37 ± 2.0
10.0	32 ± 3.5
33.3	32 ± 7.2
100.0	34 ± 4.2
333.3	13 ± 2.2 ^s
Trial Summary	Negative
Positive Control ⁴	635 ± 17.2
Positive Control ⁵	

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Date Report Requested: 09/14/2018

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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	21 ± 2.4	37 ± 3.5	23 ± 1.7	47 ± 5.8	33 ± 1.8
3.3	17 ± 1.9	46 ± 5.0	26 ± 5.0	63 ± 3.2	28 ± 2.1
10.0	16 ± 1.5	35 ± 4.8	22 ± 0.3	51 ± 1.8	26 ± 4.3
33.3	19 ± 0.9	34 ± 7.8	29 ± 3.9	50 ± 6.1	26 ± 2.6
100.0	9 ± 3.5 ^s	22 ± 4.4	27 ± 0.9	43 ± 6.2	23 ± 2.6
333.3	11 ± 1.5 ^s	17 ± 1.5 ^s	20 ± 1.2 ^s	37 ± 8.6	24 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			716 ± 58.9	509 ± 20.5	1331 ± 51.6
Positive Control ⁶	698 ± 37.3	850 ± 18.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	50 ± 2.9
3.3	63 ± 4.8
10.0	62 ± 3.9
33.3	68 ± 3.8
100.0	61 ± 3.1
333.3	30 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	1170 ± 9.5
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****