

Experiment Number: 538535

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

G06: Ames Summary Data

Test Compound: **4-Nitrophthalic anhydride**

CAS Number: **5466-84-2**

Date Report Requested: **09/13/2018**

Time Report Requested: **00:49:02**

NTP Study Number:

538535

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 10.4	146 ± 7.8	138 ± 16.5	137 ± 3.8	150 ± 21.0
33.0					159 ± 6.2
100.0	110 ± 17.1	148 ± 4.8	145 ± 20.6	150 ± 5.9	169 ± 10.7
333.0	113 ± 6.8	159 ± 4.1	147 ± 5.4	152 ± 5.5	174 ± 5.2
1000.0	129 ± 9.8	156 ± 4.3	185 ± 13.4	176 ± 5.7	170 ± 4.9
3333.0	137 ± 6.1	178 ± 4.7	183 ± 6.4	220 ± 15.0	243 ± 8.7
6666.0	Toxic	233 ± 19.5	183 ± 1.0 ^s	200 ± 1.8	
Trial Summary	Negative	Equivocal	Negative	Weakly Positive	Equivocal
Positive Control ²				794 ± 9.2	868 ± 65.3
Positive Control ³		486 ± 17.6	577 ± 5.8		
Positive Control ⁴	331 ± 8.4				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.7	8 ± 4.5	9 ± 0.7	9 ± 0.7
33.0				11 ± 3.5
100.0	12 ± 1.0	5 ± 0.6	10 ± 2.2	11 ± 2.4
333.0	14 ± 1.2	7 ± 1.3	9 ± 1.7	10 ± 1.9
1000.0	13 ± 0.6	9 ± 1.2	9 ± 1.5	20 ± 2.5
3333.0	9 ± 1.2	9 ± 1.9	25 ± 4.6	28 ± 4.4
6666.0	Toxic	6 ± 0.9	13 ± 1.7	
Trial Summary	Negative	Negative	Equivocal	Positive
Positive Control ³			231 ± 13.9	275 ± 22.3
Positive Control ⁴	331 ± 7.5			
Positive Control ⁵		142 ± 6.2		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 2.1	9 ± 1.9	10 ± 1.8
33.0	8 ± 1.7		10 ± 2.2
100.0	10 ± 1.3	8 ± 1.5	7 ± 0.7
333.0	8 ± 0.7	7 ± 1.5	10 ± 1.9
1000.0	13 ± 1.3	8 ± 2.0	12 ± 2.5
3333.0	23 ± 2.6	16 ± 3.8	13 ± 2.0
6666.0		43 ± 8.7 ^s	
Trial Summary	Equivocal	Equivocal	Negative
Positive Control ⁵		149 ± 8.3	196 ± 21.4
Positive Control ⁶	130 ± 1.5		

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Mutagenicity**G06: Ames Summary Data**Test Compound: 4-Nitrophthalic anhydride
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	143 ± 8.6	160 ± 9.5	186 ± 7.5	192 ± 12.7	159 ± 4.4
33.0		183 ± 10.4			
100.0	158 ± 9.5	192 ± 15.8	192 ± 4.5	225 ± 5.9	162 ± 14.4
333.0	146 ± 3.7	197 ± 14.3	190 ± 2.5	244 ± 11.3	171 ± 3.5
1000.0	205 ± 3.7	270 ± 8.8	196 ± 4.4	259 ± 2.5	204 ± 1.9
3333.0	307 ± 11.0	370 ± 40.2	225 ± 4.9	241 ± 9.3	339 ± 5.5
6666.0	Toxic		406 ± 26.0	658 ± 58.6 ^s	333 ± 53.1
Trial Summary	Positive	Positive	Equivocal	Positive	Weakly Positive
Positive Control ²					514 ± 13.1
Positive Control ³			383 ± 9.5	413 ± 16.6	
Positive Control ⁷	443 ± 17.8	364 ± 16.4			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	168 ± 6.8
33.0	209 ± 2.8
100.0	219 ± 12.7
333.0	226 ± 5.6
1000.0	218 ± 5.0
3333.0	294 ± 13.2
6666.0	
Trial Summary	Weakly Positive
Positive Control ²	553 ± 13.9
Positive Control ³	
Positive Control ⁷	

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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	20 ± 2.0	25 ± 1.5	24 ± 4.4	43 ± 3.4	29 ± 4.1
33.0		26 ± 2.6			
100.0	22 ± 5.4	28 ± 1.7	29 ± 5.2	26 ± 3.2	45 ± 5.2
333.0	23 ± 3.8	32 ± 3.8	33 ± 3.8	35 ± 2.6	56 ± 2.0
1000.0	35 ± 7.4	62 ± 7.3	43 ± 6.9	49 ± 3.5	135 ± 10.5
3333.0	50 ± 2.8	114 ± 9.5	58 ± 4.3	83 ± 6.7	361 ± 25.7
6666.0	Toxic		172 ± 29.7	288 ± 14.5 ^s	129 ± 16.7
Trial Summary	Weakly Positive	Positive	Positive	Positive	Positive
Positive Control ²					507 ± 12.7
Positive Control ³			182 ± 18.2	282 ± 3.8	
Positive Control ⁸	729 ± 20.0	857 ± 52.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	36 ± 1.5
33.0	38 ± 0.6
100.0	53 ± 5.3
333.0	61 ± 6.2
1000.0	154 ± 6.6
3333.0	447 ± 48.7
6666.0	
Trial Summary	Positive
Positive Control ²	522 ± 13.8
Positive Control ³	
Positive Control ⁸	

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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: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 25.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****