

Experiment Number: 963027

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

G06: Ames Summary Data

Test Compound: **o-Nitrobenzyl chloride**

CAS Number: 612-23-7

Date Report Requested: 09/17/2018

Time Report Requested: 21:46:34

NTP Study Number:

963027

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	93 ± 2.9	91 ± 2.3	108 ± 4.8	149 ± 1.8	141 ± 7.5
3.3	101 ± 7.9			156 ± 20.2	
10.0	98 ± 12.1			138 ± 8.4	
33.0	101 ± 12.3			159 ± 10.0	
67.0		88 ± 3.8	170 ± 17.1		177 ± 6.7
100.0	124 ± 10.3	71 ± 2.5	195 ± 4.0	192 ± 2.3	152 ± 6.9
167.0		107 ± 7.5	210 ± 6.4		153 ± 6.4
333.0	215 ± 21.2	114 ± 5.0	236 ± 1.7	302 ± 13.3	233 ± 10.7
667.0		28 ± 2.8	29 ± 18.6		155 ± 33.2
Trial Summary	Equivocal	Negative	Positive	Positive	Equivocal
Positive Control ²				1869 ± 111.4	1880 ± 82.7
Positive Control ³	1453 ± 50.2	324 ± 59.7	1326 ± 52.4		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 3.3	154 ± 10.5	171 ± 8.8	132 ± 9.7	119 ± 8.4
3.3			150 ± 5.7		
10.0			158 ± 3.2		
33.0			155 ± 14.4		
67.0	166 ± 19.3	243 ± 1.8		157 ± 1.8	174 ± 9.3
100.0	169 ± 3.8	257 ± 12.0	174 ± 18.7	166 ± 4.6	172 ± 10.4
167.0	144 ± 7.8	291 ± 19.0		183 ± 12.0	221 ± 18.3
333.0	369 ± 17.2	97 ± 25.4	317 ± 27.6	167 ± 11.4	354 ± 8.3
667.0	Toxic	Toxic		206 ± 25.7	117 ± 79.0
Trial Summary	Equivocal	Weakly Positive	Equivocal	Weakly Positive	Positive
Positive Control ²	1104 ± 12.3	2183 ± 283.7	1745 ± 144.3	2157 ± 219.2	630 ± 42.1
Positive Control ³					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	159 ± 7.0
3.3	
10.0	
33.0	
67.0	262 ± 7.1
100.0	289 ± 13.5
167.0	331 ± 11.6
333.0	64 ± 4.2
667.0	Toxic
Trial Summary	Positive
Positive Control ²	1971 ± 201.8
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 0.6	5 ± 1.5	3 ± 0.9	8 ± 1.2	8 ± 0.6
3.3	8 ± 2.8			13 ± 3.1	
10.0	8 ± 2.4			11 ± 1.5	
33.0	6 ± 0.9		3 ± 0.3	14 ± 1.7	
67.0		6 ± 1.2	5 ± 1.2		5 ± 1.5
100.0	18 ± 3.6	10 ± 1.2	5 ± 1.2	20 ± 4.6	14 ± 2.8
167.0		8 ± 1.7	5 ± 1.8		15 ± 0.9
333.0	7 ± 4.2	12 ± 1.2	4 ± 0.9	22 ± 1.2	22 ± 3.5
667.0		0 ± 0.0			0 ± 0.0
Trial Summary	Equivocal	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control ⁴				240 ± 20.0	73 ± 3.0
Positive Control ³	1381 ± 45.8	190 ± 46.3	1199 ± 28.6		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.9	9 ± 2.0
3.3	12 ± 2.0	
10.0	16 ± 2.6	
33.0	15 ± 1.0	
67.0		8 ± 1.9
100.0	28 ± 2.3	19 ± 2.6
167.0		26 ± 2.3
333.0	32 ± 1.7	30 ± 4.5
667.0		0 ± 0.0
Trial Summary	Positive	Positive
Positive Control ⁴	92 ± 9.2	82 ± 4.7
Positive Control ³		

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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 ± 3.2	4 ± 0.9	10 ± 2.9	17 ± 2.2	13 ± 2.1
3.3	11 ± 2.5	3 ± 0.3	13 ± 2.5	18 ± 1.5	15 ± 2.0
10.0	6 ± 1.5	3 ± 0.3	11 ± 1.0	14 ± 2.3	15 ± 0.9
33.0	8 ± 1.5	3 ± 1.3	11 ± 3.0	11 ± 1.2	11 ± 0.6
100.0	9 ± 2.0	3 ± 1.0	14 ± 0.9	12 ± 2.1	17 ± 1.7
333.0	9 ± 1.5	4 ± 2.0	6 ± 2.0	8 ± 2.4	10 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			89 ± 18.4	290 ± 13.7	168 ± 46.8
Positive Control ⁵	368 ± 80.1	117 ± 38.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.7
3.3	10 ± 0.3
10.0	11 ± 1.7
33.0	11 ± 1.5
100.0	16 ± 2.6
333.0	11 ± 1.7
Trial Summary	Negative
Positive Control ⁴	270 ± 19.4
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16 ± 5.8	15 ± 3.4	15 ± 2.6	36 ± 6.5	23 ± 0.9
3.3	25 ± 1.9	13 ± 1.7	16 ± 2.6	35 ± 2.2	15 ± 1.5
10.0	23 ± 2.4	14 ± 2.8	19 ± 3.2	35 ± 2.5	16 ± 4.4
33.0	30 ± 2.4	20 ± 2.3	23 ± 3.2	34 ± 2.0	20 ± 3.5
100.0	27 ± 2.3	21 ± 1.7	25 ± 2.9	35 ± 3.0	22 ± 2.0
333.0	30 ± 2.3	24 ± 5.8	29 ± 1.5	39 ± 0.9	17 ± 0.0
Trial Summary	Equivocal	Equivocal	Weakly Positive	Negative	Negative
Positive Control ²				1246 ± 194.5	469 ± 20.0
Positive Control ⁶	237 ± 70.0	156 ± 7.0	171 ± 9.0		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	39 ± 4.9	22 ± 4.1
3.3	27 ± 2.2	21 ± 3.5
10.0	37 ± 5.2	22 ± 1.8
33.0	30 ± 1.5	13 ± 1.5
100.0	22 ± 0.3	22 ± 3.0
333.0	30 ± 5.0	22 ± 11.2
Trial Summary	Negative	Negative
Positive Control ²	1834 ± 251.5	630 ± 42.1
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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****