

Experiment Number: 427502

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isopropyl phenylacetate

CAS Number: 4861-85-2

Date Report Requested: 09/15/2018

Time Report Requested: 06:26:55

NTP Study Number:

427502

Study Result:

Negative

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Test Compound: Isopropyl phenylacetate

CAS Number: 4861-85-2

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	104 ± 5.5	105 ± 2.4	120 ± 7.9	148 ± 11.5	132 ± 4.7
3.0		112 ± 7.6	113 ± 9.3		
10.0	113 ± 7.8	98 ± 4.5	106 ± 4.0	128 ± 7.0	
33.0	122 ± 13.0	84 ± 1.9	114 ± 5.5	131 ± 4.1	127 ± 7.8
100.0	116 ± 6.1	92 ± 6.2	108 ± 4.7	115 ± 6.2	140 ± 7.2
166.0		86 ± 3.2	82 ± 3.9		
333.0	37 ± 3.2			114 ± 10.8	133 ± 5.0
666.0	1 ± 0.7 ^s				
1000.0				15 ± 8.7 ^s	126 ± 8.4
3333.0					46 ± 22.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				371 ± 14.0	
Positive Control ⁴					382 ± 17.5
Positive Control ⁵	551 ± 5.8	516 ± 19.7	354 ± 23.1		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	140 ± 7.2	112 ± 11.1
3.0		
10.0	128 ± 13.1	
33.0	114 ± 11.8	122 ± 3.7
100.0	101 ± 7.2	132 ± 7.5
166.0		
333.0	118 ± 5.4	123 ± 16.2
666.0		
1000.0	44 ± 3.5 ^s	103 ± 2.4
3333.0		21 ± 16.4
Trial Summary	Negative	Negative
Positive Control ²	594 ± 15.5	
Positive Control ³		545 ± 30.1
Positive Control ⁴		
Positive Control ⁵		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.8	13 ± 1.9	14 ± 1.3	16 ± 2.4	10 ± 2.4
3.0	10 ± 1.2	15 ± 2.6			
10.0	10 ± 1.0	10 ± 1.5	12 ± 0.3	13 ± 1.8	11 ± 1.5
33.0	8 ± 0.3	10 ± 2.3	10 ± 1.5	18 ± 0.6	9 ± 1.2
100.0	6 ± 1.2	9 ± 2.0	9 ± 0.6	11 ± 1.3	10 ± 1.5
166.0	9 ± 0.7	11 ± 1.5			
333.0			10 ± 1.5	7 ± 1.7	8 ± 1.5
1000.0			1 ± 1.3 ^s	12 ± 1.2	3 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					88 ± 6.7
Positive Control ⁴			74 ± 0.9		
Positive Control ⁵	433 ± 28.3	860 ± 10.3			
Positive Control ⁶				77 ± 6.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.9
3.0	
10.0	10 ± 1.0
33.0	10 ± 0.7
100.0	13 ± 2.0
166.0	
333.0	11 ± 2.8
1000.0	9 ± 0.3 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	126 ± 8.4
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	217 ± 5.8	192 ± 2.0	168 ± 9.8	163 ± 13.7	211 ± 7.3
3.0	218 ± 5.9	200 ± 6.7			
10.0	218 ± 3.7	180 ± 14.6	178 ± 7.4	184 ± 4.8	216 ± 10.3
33.0	219 ± 4.5	171 ± 8.4	182 ± 14.9	206 ± 4.2	210 ± 8.1
100.0	225 ± 7.0	181 ± 3.6	175 ± 12.0	213 ± 12.9	223 ± 7.1
166.0	145 ± 19.5	130 ± 23.5			
333.0			182 ± 8.4	221 ± 5.2	211 ± 5.4
1000.0			27 ± 7.0 ^s	194 ± 15.5	162 ± 23.1
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			377 ± 8.9		
Positive Control ⁴				349 ± 13.6	366 ± 11.8
Positive Control ⁷	317 ± 10.3	400 ± 9.7			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	162 ± 2.4	158 ± 1.3
3.0		
10.0	166 ± 6.8	155 ± 2.9
33.0	155 ± 6.4	172 ± 10.4
100.0	155 ± 3.5	169 ± 11.9
166.0		
333.0	162 ± 2.6	165 ± 0.3
1000.0	22 ± 11.4 ^s	119 ± 4.3 ^s
Trial Summary	Negative	Negative
Positive Control ²	457 ± 8.2	
Positive Control ³		344 ± 15.9
Positive Control ⁴		
Positive Control ⁷		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	21 ± 4.8	28 ± 2.0	22 ± 1.5	19 ± 1.2	17 ± 0.6
3.0		23 ± 1.8	26 ± 2.3		
10.0	16 ± 0.7	24 ± 2.0	23 ± 4.8	20 ± 2.6	
33.0	18 ± 1.2	31 ± 3.6	28 ± 1.5	19 ± 2.5	22 ± 3.2
100.0	19 ± 1.0	22 ± 2.7	26 ± 0.9	21 ± 0.3	20 ± 2.3
166.0		22 ± 2.7	17 ± 4.7		
333.0	6 ± 0.9			15 ± 1.5	16 ± 0.9
666.0	0 ± 0.0 ^s				
1000.0				3 ± 3.3 ^s	11 ± 2.0
3333.0					3 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				224 ± 25.1	103 ± 6.0
Positive Control ⁸	980 ± 21.3	688 ± 232.3	1019 ± 57.9		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	22 ± 2.0	19 ± 4.6
3.0		
10.0	18 ± 1.2	
33.0	17 ± 1.2	18 ± 3.7
100.0	20 ± 2.9	16 ± 0.9
166.0		
333.0	20 ± 1.7	16 ± 1.7
666.0		
1000.0	2 ± 1.5 ^s	12 ± 2.1 ^s
3333.0		3 ± 1.3 ^s
Trial Summary	Negative	Negative
Positive Control ²	607 ± 41.1	
Positive Control ³		386 ± 27.2
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: 2.5 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **