

Experiment Number: 972852

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Acetyl-2-phenyl hydrazide

CAS Number: 114-83-0

Date Report Requested: 09/18/2018

Time Report Requested: 02:31:17

NTP Study Number:

972852

Study Result:

Positive

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Test Compound: 1-Acetyl-2-phenyl hydrazide

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Date Report Requested: 09/18/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	81 ± 4.6	126 ± 9.8	109 ± 14.2	89 ± 6.2	109 ± 6.4
100.0	72 ± 2.3			81 ± 5.8	
333.0	76 ± 4.3	140 ± 9.0	106 ± 4.1	88 ± 6.4	102 ± 5.8
1000.0	89 ± 4.3	153 ± 8.4	105 ± 7.3	82 ± 4.7	120 ± 9.1
3333.0	109 ± 4.4	173 ± 5.9	113 ± 10.2	89 ± 4.3	119 ± 5.4
6667.0		181 ± 3.9	119 ± 3.8		117 ± 1.8
10000.0	111 ± 1.2	183 ± 9.6	121 ± 6.1	78 ± 7.9	96 ± 8.1 ^s
Trial Summary	Equivocal	Weakly Positive	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			3495 ± 21.4	1290 ± 66.3	2240 ± 52.6
Positive Control ⁴					
Positive Control ⁵	936 ± 28.3	1360 ± 43.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	125 ± 2.2	114 ± 5.4	79 ± 10.3	98 ± 7.8	113 ± 8.2
100.0			85 ± 5.2		
333.0	111 ± 3.5	112 ± 4.4	85 ± 1.7	84 ± 1.8	118 ± 4.3
1000.0	102 ± 6.3	109 ± 2.7	83 ± 3.5	104 ± 4.6	106 ± 1.5
3333.0	124 ± 5.4	116 ± 5.8	89 ± 5.3	113 ± 1.0	166 ± 9.5
6667.0	116 ± 11.9	114 ± 7.2		110 ± 3.5	154 ± 10.5
10000.0	122 ± 3.0	128 ± 3.8	101 ± 8.6	109 ± 3.0	162 ± 8.1
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control ²			726 ± 36.6	1604 ± 63.0	
Positive Control ³					
Positive Control ⁴	1268 ± 62.1	3809 ± 86.6			1621 ± 40.7
Positive Control ⁵					

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	11 ± 3.3	24 ± 2.2	15 ± 2.0	7 ± 1.7	12 ± 2.6
100.0	15 ± 0.3			8 ± 0.6	
333.0	22 ± 5.6	25 ± 1.2	18 ± 1.5	7 ± 2.9	11 ± 0.9
1000.0	26 ± 5.7	23 ± 1.5	14 ± 2.0	8 ± 1.9	14 ± 0.3
3333.0	23 ± 6.1	34 ± 3.2	13 ± 2.7	9 ± 1.7	15 ± 3.0
6667.0		43 ± 1.2	19 ± 0.9		8 ± 0.9
10000.0	27 ± 1.5	54 ± 6.7	23 ± 3.5	9 ± 2.3	12 ± 0.9
Trial Summary	Weakly Positive	Weakly Positive	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			149 ± 3.9	80 ± 5.9	144 ± 4.7
Positive Control ⁴					
Positive Control ⁵	795 ± 26.4	946 ± 10.4			

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 Test Compound: 1-Acetyl-2-phenyl hydrazide
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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.6	12 ± 1.3	7 ± 0.0	14 ± 0.3	10 ± 1.2
100.0			7 ± 0.6		
333.0	13 ± 2.4	11 ± 2.0	9 ± 0.9	7 ± 0.3	13 ± 1.5
1000.0	13 ± 0.6	16 ± 1.5	9 ± 1.5	13 ± 0.6	11 ± 1.2
3333.0	10 ± 0.7	15 ± 3.0	7 ± 2.2	13 ± 0.9	15 ± 1.7
6667.0	10 ± 1.5	17 ± 4.0		14 ± 3.1	12 ± 1.2
10000.0	14 ± 3.2	24 ± 2.9	12 ± 1.2	13 ± 2.1 ^s	10 ± 1.5
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²		178 ± 14.8	64 ± 4.8	144 ± 9.2	
Positive Control ³					
Positive Control ⁴	188 ± 10.4				244 ± 13.3
Positive Control ⁵					

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Test Compound: 1-Acetyl-2-phenyl hydrazide

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	76 ± 3.8	32 ± 3.4	127 ± 17.7	92 ± 5.6	163 ± 4.6
100.0	89 ± 6.2			95 ± 4.5	
333.0	98 ± 26.3	81 ± 16.8	144 ± 12.8	107 ± 5.9	185 ± 12.8
1000.0	32 ± 20.9	99 ± 20.8	155 ± 4.4	70 ± 22.4	177 ± 8.8
3333.0	118 ± 4.6	190 ± 21.6	203 ± 2.8	114 ± 2.4	210 ± 13.5
6667.0		322 ± 65.4 ^s	226 ± 13.0		238 ± 7.4
10000.0	331 ± 4.8 ^s	464 ± 9.7 ^s	238 ± 9.8	207 ± 16.5	255 ± 17.5
Trial Summary	Positive	Positive	Positive	Equivocal	Weakly Positive
Positive Control ²					
Positive Control ³			1878 ± 85.3	811 ± 15.7	1090 ± 29.1
Positive Control ⁴					
Positive Control ⁶	864 ± 58.3	1062 ± 91.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	169 ± 7.0	137 ± 7.4	104 ± 4.9	133 ± 4.3	159 ± 3.8
100.0			102 ± 4.9		
333.0	191 ± 5.3	147 ± 9.0	104 ± 13.7	148 ± 6.8	207 ± 2.9
1000.0	186 ± 6.0	182 ± 5.8	156 ± 3.8	182 ± 13.5	241 ± 12.8
3333.0	231 ± 5.5	216 ± 14.4	160 ± 5.0	225 ± 21.1	336 ± 14.1
6667.0	198 ± 65.3	247 ± 9.6		250 ± 14.4	362 ± 14.4
10000.0	243 ± 11.9	255 ± 9.1	177 ± 8.4	254 ± 9.9	381 ± 15.0
Trial Summary	Equivocal	Positive	Weakly Positive	Positive	Positive
Positive Control ²		2072 ± 74.7	585 ± 87.6	890 ± 67.9	
Positive Control ³					
Positive Control ⁴	687 ± 21.3				963 ± 17.2
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	15 ± 1.2	24 ± 4.5	35 ± 0.9	27 ± 1.7	30 ± 1.2
100.0	12 ± 1.3			23 ± 3.9	
333.0	17 ± 0.9	23 ± 2.0	32 ± 4.3	22 ± 1.8	34 ± 1.0
1000.0	13 ± 2.2	24 ± 4.0	35 ± 5.2	28 ± 2.1	30 ± 3.5
3333.0	11 ± 2.7	18 ± 2.9	40 ± 4.3	28 ± 2.7	32 ± 2.3
6667.0		22 ± 1.9	33 ± 0.9		36 ± 3.9
10000.0	19 ± 3.3	25 ± 4.0	35 ± 3.8	30 ± 1.5	31 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			3164 ± 37.6	939 ± 57.0	1754 ± 149.5
Positive Control ⁴					
Positive Control ⁷	1375 ± 18.5	2539 ± 65.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	32 ± 3.5	33 ± 2.7	33 ± 2.5	28 ± 3.2	37 ± 4.3
100.0			24 ± 1.7		
333.0	34 ± 1.2	34 ± 2.4	21 ± 1.0	33 ± 2.0	30 ± 3.6
1000.0	35 ± 2.8	34 ± 5.7	25 ± 2.1	38 ± 6.5	34 ± 0.9
3333.0	41 ± 2.3	36 ± 2.4	30 ± 5.8	38 ± 3.2	46 ± 5.6
6667.0	35 ± 2.9	40 ± 6.1		34 ± 2.7	46 ± 3.8
10000.0	35 ± 3.8	43 ± 2.7	26 ± 2.2	39 ± 5.8	40 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		3033 ± 69.7	508 ± 9.6	1270 ± 39.2	
Positive Control ³					
Positive Control ⁴	857 ± 43.6				1313 ± 13.8
Positive Control ⁷					

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****