

Experiment Number: 675556

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Propionaldehyde

CAS Number: 123-38-6

Date Report Requested: 09/12/2018

Time Report Requested: 06:33:30

NTP Study Number:

675556

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control ¹	98 ± 4.8	73 ± 1.5	96 ± 1.8	105 ± 8.6	100 ± 2.1
100.0	92 ± 4.9	69 ± 1.2	85 ± 3.0	112 ± 2.0	104 ± 10.4
333.0	101 ± 7.3	69 ± 1.9	86 ± 3.2	113 ± 5.9	93 ± 4.9
1000.0	97 ± 3.1	67 ± 2.0	106 ± 3.9	114 ± 6.8	96 ± 8.5
3333.0	109 ± 8.2	64 ± 2.3	91 ± 9.8	104 ± 1.2	102 ± 2.3
10000.0	79 ± 4.3 ^s	60 ± 1.5 ^s	136 ± 7.2 ^s	114 ± 6.1 ^s	127 ± 0.0 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			856 ± 12.4	286 ± 14.7	1413 ± 29.4
Positive Control ³	291 ± 19.3	271 ± 19.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	82 ± 0.7	91 ± 7.6
100.0	82 ± 2.6	99 ± 6.2
333.0	86 ± 4.2	104 ± 10.4
1000.0	71 ± 0.6	94 ± 3.9
3333.0	83 ± 5.4	95 ± 10.0
10000.0	86 ± 4.6 ^s	120 ± 6.9 ^s
Trial Summary	Negative	Equivocal
Positive Control ²	386 ± 46.7	747 ± 20.7
Positive Control ³		

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control ¹	211 ± 12.1	99 ± 9.9	238 ± 18.8	227 ± 13.2	180 ± 3.7
100.0	231 ± 10.2	113 ± 7.6	265 ± 15.4	192 ± 13.4	161 ± 13.9
333.0	218 ± 10.7	109 ± 1.9	262 ± 18.0	234 ± 8.1	168 ± 9.0
1000.0	208 ± 3.5	89 ± 7.1	214 ± 22.2	220 ± 12.3	182 ± 14.0
3333.0	163 ± 10.8	92 ± 7.9	190 ± 14.2	182 ± 10.1	163 ± 8.4
10000.0	44 ± 10.7 ^s	30 ± 7.2 ^s	133 ± 18.3 ^s	89 ± 8.2 ^s	129 ± 3.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	1302 ± 143.0	424 ± 3.9			
Positive Control ²					
Positive Control ⁵			480 ± 33.5	498 ± 9.3	325 ± 24.5

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Strain: TA102

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	208 ± 7.4
100.0	219 ± 3.0
333.0	225 ± 7.8
1000.0	184 ± 0.3
3333.0	178 ± 6.3
10000.0	96 ± 10.9 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ²	
Positive Control ⁵	422 ± 33.6

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9
Vehicle Control ¹	283 ± 2.9	305 ± 13.1	474 ± 11.3	458 ± 35.3	433 ± 9.7
100.0	270 ± 6.1	315 ± 11.4	469 ± 18.3	454 ± 32.3	437 ± 15.2
333.0	247 ± 8.7	273 ± 13.8	464 ± 4.9	441 ± 19.6	436 ± 12.2
1000.0	196 ± 4.5	268 ± 12.1	384 ± 14.5	367 ± 29.0	404 ± 15.3
3333.0	201 ± 16.1	295 ± 26.2	300 ± 9.7	352 ± 8.4	330 ± 24.7
10000.0	57 ± 8.0 ^s	82 ± 7.7 ^s	168 ± 26.2 ^s	201 ± 13.2 ^s	140 ± 10.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶					
Positive Control ²			1038 ± 51.5	665 ± 4.6	1240 ± 16.5
Positive Control ⁷	473 ± 8.5	595 ± 40.8			

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Strain: TA104

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	327 ± 15.9
100.0	349 ± 8.8
333.0	347 ± 25.0
1000.0	323 ± 18.4
3333.0	315 ± 22.5
10000.0	191 ± 17.9 ^s
Trial Summary	Negative
Positive Control ⁶	
Positive Control ²	466 ± 23.5
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: 1.0 ug/Plate 2-Aminoanthracene

3: 100.0 ug/Plate Methyl Methane Sulfonate

4: 0.5 ug/Plate Mitomycin-C

5: 5.0 ug/Plate 2-Aminoanthracene

6: 0.125 ug/Plate Mitomycin-C

7: 50.0 ug/Plate Formaldehyde

s: Slight Toxicity

** END OF REPORT **