

Experiment Number: 489344

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzaldehyde

CAS Number: 100-52-7

Date Report Requested: 09/11/2018

Time Report Requested: 22:52:12

NTP Study Number:

489344

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	84 ± 1.9	87 ± 4.4	100 ± 6.7	113 ± 11.1	101 ± 7.0
33.0	81 ± 3.3	94 ± 4.5	103 ± 4.0	106 ± 8.4	103 ± 8.5
100.0	82 ± 3.4	96 ± 1.5	98 ± 11.1	124 ± 5.0	100 ± 1.5
333.0	80 ± 9.0	79 ± 5.5	93 ± 7.0	119 ± 3.8	102 ± 4.8
1000.0	90 ± 2.3	87 ± 0.7	98 ± 9.2	88 ± 4.0	86 ± 1.2
3333.0	2 ± 1.2 ^s	66 ± 4.9 ^s	24 ± 7.5 ^s	87 ± 10.6 ^s	70 ± 6.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			899 ± 35.4	219 ± 17.9	2071 ± 19.1
Positive Control ³	253 ± 5.2	439 ± 20.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	94 ± 4.9
33.0	101 ± 7.8
100.0	77 ± 2.3
333.0	96 ± 7.2
1000.0	88 ± 1.9
3333.0	81 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	661 ± 81.6
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	243 ± 6.9	213 ± 1.5	263 ± 9.3	202 ± 1.3	267 ± 17.4
33.0	300 ± 16.0	183 ± 9.6	264 ± 23.8	210 ± 5.0	246 ± 26.5
100.0	273 ± 4.3	195 ± 16.5	234 ± 10.6	210 ± 5.5	215 ± 0.0
333.0	227 ± 12.2	179 ± 11.4	250 ± 12.3	205 ± 2.3	255 ± 24.1
1000.0	254 ± 8.7	168 ± 8.8	281 ± 7.2	195 ± 15.5	212 ± 4.2
3333.0	69 ± 10.2 ^s	42 ± 5.3 ^s	70 ± 9.3 ^s	102 ± 7.3 ^s	99 ± 9.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	1422 ± 52.4	1142 ± 183.3			
Positive Control ²			530 ± 37.9		446 ± 8.0
Positive Control ⁵				373 ± 10.8	

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Test Compound: Benzaldehyde

CAS Number: 100-52-7

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Strain: TA102

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	232 ± 16.2
33.0	244 ± 19.5
100.0	244 ± 16.1
333.0	244 ± 14.2
1000.0	178 ± 5.4
3333.0	133 ± 6.2 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ²	
Positive Control ⁵	392 ± 8.0

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G06: Ames Summary Data

Date Report Requested: 09/11/2018

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

Time Report Requested: 22:52:12

CAS Number: 100-52-7

Strain: TA104

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	275 ± 9.2	452 ± 9.6	382 ± 12.3	362 ± 9.3	447 ± 14.4
33.0	301 ± 11.5	437 ± 12.5	395 ± 28.1	345 ± 20.5	467 ± 12.2
100.0	313 ± 12.3	437 ± 17.6	347 ± 18.2	417 ± 14.6	394 ± 48.8
333.0	281 ± 21.9	412 ± 19.2	366 ± 24.8	352 ± 29.6	387 ± 5.5
1000.0	274 ± 9.6	358 ± 35.8	399 ± 8.6	320 ± 11.9	369 ± 17.1
3333.0	72 ± 8.5 ^s	246 ± 14.5 ^s	250 ± 0.9 ^s	256 ± 19.2 ^s	338 ± 6.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ²		1031 ± 88.4	544 ± 27.2	724 ± 19.9	626 ± 27.8
Positive Control ⁶	609 ± 39.8				

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Test Compound: **Benzaldehyde**

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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: 50.0 ug/Plate Formaldehyde

s: Slight Toxicity

**** END OF REPORT ****