

Experiment Number: 936104

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

G06: Ames Summary Data

Test Compound: **Butyraldehyde**

CAS Number: **123-72-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **12:07:58**

NTP Study Number:

936104

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	97 ± 9.9	80 ± 5.5	102 ± 6.1	104 ± 11.0	97 ± 5.2
10.0	95 ± 6.2	82 ± 5.0	105 ± 6.0	97 ± 1.9	99 ± 2.7
33.0	95 ± 8.4	82 ± 5.3	109 ± 8.0	99 ± 4.8	104 ± 8.4
100.0	86 ± 2.1	51 ± 7.5	99 ± 2.2	107 ± 9.0	99 ± 5.3
333.0	78 ± 0.0	74 ± 7.5	93 ± 3.8	89 ± 4.0	106 ± 3.7
1000.0	66 ± 3.8 ^s	68 ± 8.7 ^s	105 ± 6.1 ^s	105 ± 5.2	98 ± 10.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1405 ± 21.0	282 ± 5.4	2195 ± 84.8
Positive Control ³	298 ± 4.6	364 ± 34.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	91 ± 4.4
10.0	92 ± 8.2
33.0	93 ± 2.8
100.0	88 ± 3.2
333.0	88 ± 4.5
1000.0	80 ± 4.2
Trial Summary	Negative
Positive Control ²	708 ± 26.7
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% Rat S9
Vehicle Control ¹	203 ± 3.1	124 ± 4.7	313 ± 9.5	276 ± 4.3	242 ± 39.5
10.0	215 ± 9.0	111 ± 5.0	323 ± 8.0	291 ± 4.0	219 ± 16.8
33.0	246 ± 11.1	120 ± 14.3	328 ± 3.0	309 ± 18.0	208 ± 8.0
100.0	159 ± 9.7	112 ± 13.9	308 ± 10.7	274 ± 29.8	227 ± 11.0
333.0	169 ± 9.1	101 ± 13.4	293 ± 10.8	298 ± 30.0	214 ± 17.5
1000.0	75 ± 5.2 ^s	84 ± 3.5 ^s	314 ± 2.6 ^s	296 ± 23.0	236 ± 20.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	1355 ± 119.1	778 ± 24.4			
Positive Control ²			448 ± 12.9		
Positive Control ⁵				475 ± 1.2	476 ± 3.2

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Strain: TA102

Dose (ug/Plate)	With 10% Mouse S9	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	297 ± 32.4	170 ± 2.1	307 ± 3.5
10.0	336 ± 23.1	208 ± 17.5	274 ± 3.2
33.0	309 ± 9.4	186 ± 4.9	268 ± 15.3
100.0	331 ± 3.2	193 ± 21.8	262 ± 11.1
333.0	321 ± 7.2	171 ± 18.7	373 ± 9.0
1000.0	328 ± 16.2 ^s	194 ± 25.8	320 ± 20.8
Trial Summary	Negative	Negative	Negative
Positive Control ⁴			
Positive Control ²	440 ± 8.4		
Positive Control ⁵		356 ± 16.2	493 ± 0.0

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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	340 ± 5.7	310 ± 4.4	479 ± 12.2	516 ± 13.3	436 ± 8.7
10.0	389 ± 20.5	329 ± 16.4	466 ± 9.0	519 ± 11.0	442 ± 7.8
33.0	408 ± 11.5	292 ± 24.9	486 ± 10.8	512 ± 28.4	444 ± 7.2
100.0	373 ± 14.2	275 ± 12.6	445 ± 3.8	537 ± 8.4	422 ± 9.3
333.0	457 ± 27.5	313 ± 14.3	463 ± 11.4	510 ± 12.3	443 ± 7.9
1000.0	371 ± 19.3 ^s	258 ± 14.3 ^s	439 ± 8.0 ^s	523 ± 10.4	407 ± 20.7 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁶					
Positive Control ²			1144 ± 30.3	736 ± 12.6	1278 ± 28.6
Positive Control ⁷	870 ± 51.3	673 ± 44.8			

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Strain: TA104

Dose (ug/Plate)	With 10% Mouse S9
Vehicle Control ¹	374 ± 8.0
10.0	401 ± 14.0
33.0	379 ± 13.3
100.0	383 ± 27.2
333.0	349 ± 14.4
1000.0	377 ± 28.1
Trial Summary	Negative
Positive Control ⁶	
Positive Control ²	735 ± 68.1
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 ****