

Experiment Number: 901759

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 09/16/2018

Time Report Requested: 23:09:46

NTP Study Number:

901759

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Mouse S9
Vehicle Control ¹	99 ± 4.9	95 ± 6.2	90 ± 3.5	108 ± 3.8	93 ± 5.3
100.0	87 ± 4.6	107 ± 8.0	120 ± 4.4	105 ± 1.0	101 ± 4.5
333.0	77 ± 4.7	86 ± 1.2	106 ± 6.4	107 ± 1.2	98 ± 8.2
1000.0	82 ± 8.1	91 ± 2.7	94 ± 2.1	112 ± 3.5	93 ± 4.9
3333.0	105 ± 9.5	114 ± 2.9	115 ± 3.8	123 ± 9.0	106 ± 4.9
10000.0	101 ± 14.1 ^s	165 ± 1.5 ^s	167 ± 15.7 ^s	163 ± 13.5	183 ± 7.9 ^s
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²			915 ± 9.8	191 ± 5.5	2201 ± 17.4
Positive Control ³	248 ± 6.9	194 ± 7.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Mouse S9
Vehicle Control ¹	133 ± 9.5
100.0	116 ± 0.9
333.0	130 ± 6.6
1000.0	134 ± 6.1
3333.0	126 ± 4.4
10000.0	169 ± 2.5
Trial Summary	Negative
Positive Control ²	2139 ± 438.0
Positive Control ³	

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Mouse S9	With 30% Mouse S9
Vehicle Control ¹	236 ± 11.5	174 ± 1.8	255 ± 9.0	228 ± 10.4	298 ± 3.5
100.0	231 ± 17.5	180 ± 27.3	292 ± 7.7	235 ± 5.7	253 ± 6.3
333.0	220 ± 0.6	195 ± 12.7	302 ± 10.2	227 ± 9.7	265 ± 15.1
1000.0	142 ± 13.5	153 ± 17.0	252 ± 20.0	174 ± 21.4	260 ± 11.7
3333.0	170 ± 6.2	167 ± 13.7	268 ± 12.2	238 ± 9.5	247 ± 5.8
10000.0	12 ± 2.8 ^s	12 ± 4.1 ^s	124 ± 2.4 ^s	103 ± 0.6 ^s	263 ± 33.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	1533 ± 125.4	1257 ± 101.7			
Positive Control ²			427 ± 26.5	366 ± 3.2	360 ± 3.6

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Mouse S9
Vehicle Control ¹	386 ± 3.7	365 ± 24.5	324 ± 36.8	423 ± 19.7	432 ± 22.9
100.0	392 ± 12.0	379 ± 5.8	376 ± 16.2	418 ± 26.7	392 ± 4.7
333.0	415 ± 13.0	392 ± 11.6	349 ± 29.8	452 ± 15.2	315 ± 22.7
1000.0	392 ± 13.6	385 ± 10.8	382 ± 6.5	357 ± 15.3	363 ± 28.4
3333.0	428 ± 5.2	385 ± 15.7	327 ± 4.1	454 ± 19.7	351 ± 19.3
10000.0	617 ± 20.7 ^s	542 ± 82.9 ^s	121 ± 16.5 ^s	402 ± 45.1	111 ± 11.9 ^s
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ⁵					
Positive Control ²			811 ± 10.2	606 ± 7.2	1139 ± 20.0
Positive Control ⁶	923 ± 93.9	1027 ± 41.7			

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Strain: TA104

Dose (ug/Plate)	With 30% Mouse S9
Vehicle Control ¹	388 ± 12.5
100.0	394 ± 13.0
333.0	404 ± 3.2
1000.0	386 ± 27.5
3333.0	437 ± 10.7
10000.0	432 ± 7.9
Trial Summary	Negative
Positive Control ⁵	
Positive Control ²	658 ± 35.6
Positive Control ⁶	

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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: 0.125 ug/Plate Mitomycin-C
- 6: 50.0 ug/Plate Formaldehyde
- s: Slight Toxicity

** END OF REPORT **