

Experiment Number: A30973

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

G06: Ames Summary Data

Test Compound: **2,4-Decadienal**

CAS Number: **25152-84-5**

Date Report Requested: **09/16/2018**

Time Report Requested: **15:26:34**

NTP Study Number:

A30973

Study Result:

Negative

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Test Compound: 2,4-Decadienal

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Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	141 ± 3.5	128 ± 2.2	137 ± 1.5	144 ± 3.5	121 ± 4.3
0.1	141 ± 3.0	126 ± 1.9			
0.3	137 ± 3.2	129 ± 2.9			
1.0	133 ± 2.8	131 ± 3.1	131 ± 3.5	140 ± 3.2	123 ± 3.6
3.0	141 ± 4.5	131 ± 3.2	137 ± 3.0	134 ± 4.4	119 ± 4.4
10.0	140 ± 3.8	104 ± 2.4 ^s	133 ± 4.1	133 ± 1.7	119 ± 3.8
33.0			131 ± 4.1	140 ± 2.7	120 ± 2.7
100.0			135 ± 4.4	139 ± 4.6	113 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			906 ± 8.7	457 ± 9.0	1017 ± 8.2
Positive Control ³	591 ± 5.8	844 ± 37.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 3.2
0.1	
0.3	
1.0	137 ± 3.5
3.0	147 ± 4.1
10.0	133 ± 1.7
33.0	139 ± 4.1
100.0	142 ± 3.2
Trial Summary	Negative
Positive Control ²	859 ± 32.9
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.2	23 ± 1.2	15 ± 1.8	18 ± 1.5	14 ± 2.1
0.1	20 ± 0.3	23 ± 2.3			
0.3	17 ± 2.3	23 ± 2.2			
1.0	22 ± 5.3	20 ± 1.9	15 ± 2.2	16 ± 1.2	14 ± 1.7
3.0	15 ± 0.9	19 ± 2.9	15 ± 2.7	18 ± 1.8	14 ± 1.3
10.0	3 ± 0.9 ^s	17 ± 2.6	13 ± 1.3	16 ± 2.3	14 ± 1.9
33.0			15 ± 1.7	15 ± 2.0	13 ± 2.3
100.0			15 ± 2.2	16 ± 1.9	15 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			394 ± 2.4	251 ± 6.9	321 ± 6.7
Positive Control ³	336 ± 3.9	326 ± 4.4			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 1.5
0.1	
0.3	
1.0	16 ± 1.7
3.0	17 ± 0.7
10.0	17 ± 2.1
33.0	15 ± 2.0
100.0	17 ± 1.8
Trial Summary	Negative
Positive Control ²	262 ± 6.4
Positive Control ³	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	101 ± 2.6	100 ± 3.3	130 ± 2.2	124 ± 3.1	121 ± 3.2
0.1	101 ± 2.1	100 ± 3.9			
0.3	97 ± 4.0	97 ± 1.8			
1.0	105 ± 4.0	99 ± 3.2	128 ± 2.8	123 ± 2.6	120 ± 2.7
3.0	104 ± 2.4	95 ± 1.5	129 ± 2.4	125 ± 2.6	123 ± 2.9
10.0	98 ± 2.3	90 ± 2.9	127 ± 3.1	122 ± 3.2	116 ± 3.2
33.0			123 ± 2.6	126 ± 2.6	119 ± 2.4
100.0			123 ± 3.8	129 ± 2.3	116 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			503 ± 24.5	545 ± 4.8	755 ± 5.1
Positive Control ⁴	459 ± 13.5	445 ± 4.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 2.7
0.1	
0.3	
1.0	130 ± 2.6
3.0	128 ± 3.2
10.0	133 ± 2.5
33.0	126 ± 3.2
100.0	117 ± 2.7
Trial Summary	Negative
Positive Control ²	889 ± 6.6
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.1	23 ± 2.1	26 ± 2.2	31 ± 2.2	36 ± 2.8
0.1	25 ± 0.9	23 ± 4.7			
0.3	21 ± 1.5	22 ± 1.5			
1.0	22 ± 2.5	24 ± 1.2	26 ± 3.2	34 ± 2.0	35 ± 2.7
3.0	22 ± 1.9	24 ± 3.4	27 ± 2.0	32 ± 2.8	33 ± 2.3
10.0	24 ± 1.7	19 ± 2.3	29 ± 2.1	33 ± 1.9	32 ± 2.2
33.0			25 ± 2.3	37 ± 2.1	26 ± 2.0
100.0			21 ± 1.2	29 ± 3.0	28 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			822 ± 8.4	425 ± 8.4	981 ± 7.2
Positive Control ⁵	264 ± 7.8	415 ± 7.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 2.1
0.1	
0.3	
1.0	33 ± 1.2
3.0	29 ± 1.9
10.0	30 ± 1.5
33.0	29 ± 2.6
100.0	33 ± 2.9
Trial Summary	Negative
Positive Control ²	556 ± 4.0
Positive Control ⁵	

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	221 ± 2.6	209 ± 4.4	228 ± 3.5	266 ± 2.3	239 ± 3.2
0.1	223 ± 3.6	211 ± 3.4			
0.3	223 ± 3.8	210 ± 5.2			
1.0	222 ± 2.5	214 ± 4.9	233 ± 4.7	264 ± 4.9	239 ± 3.3
3.0	225 ± 2.6	207 ± 3.3	233 ± 3.8	266 ± 3.2	237 ± 3.4
10.0	211 ± 3.9	199 ± 2.4	230 ± 4.6	273 ± 3.7	236 ± 3.2
33.0			230 ± 3.5	257 ± 4.1	229 ± 4.9
100.0			227 ± 2.4	267 ± 2.2	224 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶	1077 ± 8.0	1353 ± 7.8			
Positive Control ⁷			1017 ± 8.2	980 ± 11.1	1009 ± 8.4

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	267 ± 2.3
0.1	
0.3	
1.0	261 ± 3.8
3.0	262 ± 4.1
10.0	269 ± 4.1
33.0	261 ± 4.1
100.0	255 ± 1.5
Trial Summary	Negative
Positive Control ⁶	
Positive Control ⁷	961 ± 6.1

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	232 ± 3.8	235 ± 3.5	314 ± 3.3	296 ± 3.5	309 ± 3.8
0.1	230 ± 4.2	233 ± 3.5			
0.3	233 ± 3.4	238 ± 3.5			
1.0	229 ± 3.8	237 ± 4.1	318 ± 3.8	301 ± 4.4	311 ± 4.4
3.0	216 ± 4.1	237 ± 3.8	310 ± 5.7	295 ± 4.3	312 ± 4.2
10.0	194 ± 2.3	234 ± 3.5	313 ± 2.0	294 ± 6.5	301 ± 3.2
33.0			320 ± 3.5	293 ± 3.5	303 ± 4.1
100.0			283 ± 2.7	240 ± 6.7	287 ± 5.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1068 ± 8.6
Positive Control ⁸			1170 ± 7.8	999 ± 11.4	
Positive Control ⁷	1035 ± 13.9	1009 ± 5.8			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	296 ± 2.7
0.1	
0.3	
1.0	298 ± 5.2
3.0	300 ± 6.1
10.0	294 ± 2.6
33.0	290 ± 4.6
100.0	240 ± 5.5
Trial Summary	Negative
Positive Control ²	1046 ± 8.5
Positive Control 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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 50.0 ug/Plate 9-Aminoacridine
- 5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- 6: 5.0 ug/Plate Mitomycin-C
- 7: 100.0 ug/Plate Other Positive Control
- 8: 2.0 ug/Plate 2-Aminoanthracene
- s: Slight Toxicity

** END OF REPORT **