

Experiment Number: 207864

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,6-Dichlorobenzaldehyde

CAS Number: 83-38-5

Date Report Requested: 09/14/2018

Time Report Requested: 14:43:25

NTP Study Number:

207864

Study Result:

Negative

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Test Compound: 2,6-Dichlorobenzaldehyde
CAS Number: 83-38-5

Date Report Requested: 09/14/2018

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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	95 ± 7.5	97 ± 9.7	104 ± 4.5	119 ± 2.2	113 ± 5.2
1.0		109 ± 4.2			
3.3	99 ± 5.9	92 ± 3.8	104 ± 4.1	114 ± 2.1	100 ± 4.1
10.0	101 ± 1.5	99 ± 4.1	105 ± 7.2	121 ± 3.1	96 ± 4.8
33.0	101 ± 2.5	115 ± 4.0	103 ± 5.8	99 ± 7.5	87 ± 4.0
100.0	86 ± 4.3	128 ± 1.5	122 ± 7.5	111 ± 3.6	131 ± 2.3
200.0	2 ± 0.9 ^s		40 ± 3.3 ^s		89 ± 1.7 ^s
333.0				86 ± 3.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					317 ± 2.0
Positive Control ³	341 ± 21.9	372 ± 5.5			
Positive Control ⁴			1424 ± 12.7		
Positive Control ⁵					
Positive Control ⁶				1478 ± 38.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 3.5
1.0	
3.3	108 ± 1.2
10.0	110 ± 9.1
33.0	111 ± 8.0
100.0	122 ± 2.2
200.0	
333.0	109 ± 3.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	548 ± 27.8
Positive Control ⁶	

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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	20 ± 3.6	13 ± 1.9	12 ± 2.6	15 ± 3.8	8 ± 2.3
1.0		16 ± 1.8			
3.3	13 ± 4.0	17 ± 1.8	11 ± 3.8	16 ± 2.8	11 ± 0.6
10.0	16 ± 1.7	15 ± 1.5	10 ± 1.2	11 ± 1.9	11 ± 1.9
33.0	15 ± 1.8	18 ± 1.5	11 ± 1.7	15 ± 2.2	13 ± 2.3
100.0	18 ± 1.8	19 ± 1.5	16 ± 1.3	13 ± 2.2	12 ± 1.8
200.0	1 ± 0.3 ^s		17 ± 1.2 ^s		7 ± 1.5 ^s
333.0				12 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					75 ± 1.2
Positive Control ³	369 ± 7.0	276 ± 10.1			
Positive Control ⁵					
Positive Control ⁶			190 ± 14.6	264 ± 3.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.5
1.0	
3.3	10 ± 1.5
10.0	13 ± 3.1
33.0	10 ± 0.6
100.0	13 ± 2.6
200.0	
333.0	7 ± 2.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	159 ± 6.6
Positive Control ⁶	

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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	97 ± 8.5	122 ± 7.4	124 ± 7.2	128 ± 6.4	109 ± 8.0
1.0		117 ± 5.5			
3.3	101 ± 3.9	105 ± 4.7	113 ± 2.5	158 ± 3.5	108 ± 5.0
10.0	105 ± 5.2	103 ± 5.0	133 ± 2.8	151 ± 13.6	99 ± 2.4
33.0	104 ± 3.2	111 ± 2.3	115 ± 10.6	158 ± 2.8	119 ± 6.7
100.0	78 ± 4.2	97 ± 6.2	91 ± 5.7	118 ± 7.6	104 ± 4.3
200.0	33 ± 7.4 ^s		47 ± 0.9 ^s		92 ± 2.3 ^s
333.0				59 ± 30.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	665 ± 13.4	567 ± 29.2			
Positive Control ⁴					1115 ± 69.2
Positive Control ⁶			2845 ± 43.1		
Positive Control ⁸				1212 ± 45.3	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	152 ± 0.9
1.0	
3.3	153 ± 10.6
10.0	148 ± 5.2
33.0	162 ± 8.2
100.0	120 ± 16.9
200.0	
333.0	89 ± 9.8 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	1086 ± 20.5

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	49 ± 3.2	19 ± 8.3	36 ± 2.0	60 ± 3.3	33 ± 5.5
1.0		20 ± 2.2			
3.3	40 ± 2.2	21 ± 1.8	32 ± 2.5	54 ± 3.7	35 ± 2.2
10.0	48 ± 0.3	24 ± 2.5	32 ± 1.9	67 ± 8.2	33 ± 3.8
33.0	48 ± 4.4	25 ± 2.0	29 ± 3.8	60 ± 3.1	33 ± 6.4
100.0	40 ± 7.1	20 ± 3.2	29 ± 1.9	55 ± 2.8	26 ± 0.6
200.0	0 ± 0.0 ^s		9 ± 2.2 ^s		
333.0				36 ± 3.2 ^s	27 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			264 ± 4.5		
Positive Control ⁹	372 ± 5.2	377 ± 19.1			
Positive Control ⁵				400 ± 4.2	436 ± 3.5

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	32 ± 3.8	68 ± 4.7	32 ± 1.0
1.0			
3.3	39 ± 2.3	63 ± 1.5	31 ± 0.7
10.0	41 ± 1.5	58 ± 6.1	29 ± 3.2
33.0	33 ± 5.3	66 ± 10.4	31 ± 2.5
100.0	37 ± 2.7	61 ± 1.5	32 ± 4.8
200.0	31 ± 2.6 ^s		
333.0		44 ± 3.0	33 ± 2.1
Trial Summary	Negative	Negative	Negative
Positive Control ²	202 ± 6.4	185 ± 11.2	267 ± 5.1
Positive Control ⁹			
Positive Control ⁵			

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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	318 ± 6.7	291 ± 4.6	399 ± 9.9	375 ± 22.0	382 ± 9.3
1.0		316 ± 1.5			
3.3	306 ± 13.7	345 ± 18.2	387 ± 13.7	389 ± 8.4	363 ± 3.8
10.0	312 ± 24.3	335 ± 4.4	373 ± 6.7	396 ± 10.7	321 ± 9.2
33.0	292 ± 5.7	259 ± 6.7	345 ± 8.2	377 ± 16.3	335 ± 13.2
100.0	245 ± 5.6	212 ± 6.1	318 ± 5.2	370 ± 16.8	317 ± 8.7
200.0	19 ± 3.2 ^s		85 ± 5.7 ^s		238 ± 3.2 ^s
333.0				236 ± 46.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰			2354 ± 9.5	1609 ± 15.4	2291 ± 18.2
Positive Control ¹¹	942 ± 19.8	752 ± 23.3			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	404 ± 2.7
1.0	
3.3	410 ± 3.8
10.0	385 ± 13.7
33.0	386 ± 34.0
100.0	399 ± 11.0
200.0	
333.0	253 ± 9.1 ^s
Trial Summary	Negative
Positive Control ¹⁰	2056 ± 105.7
Positive Control ¹¹	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

10: 4.0 ug/Plate 2-Aminoanthracene

11: 75.0 ug/Plate Solvent

s: Slight Toxicity

**** END OF REPORT ****