

Experiment Number: 888638

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzyl sulfide

CAS Number: 538-74-9

Date Report Requested: 09/16/2018

Time Report Requested: 20:17:37

NTP Study Number:

888638

Study Result:

Negative

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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	126 ± 13.8	147 ± 4.0	167 ± 9.3	174 ± 12.2	161 ± 7.8
3.0	110 ± 6.9	170 ± 7.1			
10.0	116 ± 3.8	140 ± 2.1			
33.0	133 ± 9.0	143 ± 4.5	159 ± 10.4		149 ± 11.6
100.0	149 ± 11.3	125 ± 9.6	178 ± 5.0	161 ± 13.2	165 ± 11.0
333.0	103 ± 7.0	123 ± 7.5	161 ± 6.3	146 ± 10.9	139 ± 13.5
1000.0			159 ± 7.0	141 ± 4.7	150 ± 10.9
3333.0			124 ± 10.2	86 ± 3.2	119 ± 7.9
10000.0				47 ± 5.4 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1312 ± 30.8
Positive Control ³			485 ± 5.0		
Positive Control ⁴				436 ± 8.7	
Positive Control ⁵	1027 ± 34.4	1073 ± 113.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 15.1
3.0	
10.0	
33.0	
100.0	151 ± 16.2
333.0	138 ± 11.8
1000.0	149 ± 3.2
3333.0	110 ± 3.4
10000.0	88 ± 16.6 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	824 ± 28.6
Positive Control ⁴	
Positive Control ⁵	

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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	19 ± 1.2	14 ± 1.5	14 ± 0.3	20 ± 1.5	16 ± 0.7
3.0	19 ± 2.3	10 ± 0.3			
10.0	13 ± 2.5	7 ± 1.3			
33.0	14 ± 0.0	14 ± 1.9	10 ± 3.8		11 ± 1.2
100.0	12 ± 3.1	8 ± 2.4	17 ± 1.0	14 ± 3.6	9 ± 0.6
333.0	9 ± 2.5	7 ± 2.3 ^s	9 ± 0.3	11 ± 1.2	8 ± 0.3
1000.0			11 ± 2.8	14 ± 1.8	8 ± 2.6
3333.0			16 ± 1.2	11 ± 1.0	6 ± 0.9
10000.0				11 ± 2.8 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					126 ± 8.7
Positive Control ⁴			95 ± 6.6		
Positive Control ⁵	1256 ± 11.7	1671 ± 41.8			
Positive Control ⁶				105 ± 3.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.5
3.0	
10.0	
33.0	
100.0	14 ± 1.5
333.0	10 ± 2.0
1000.0	8 ± 0.6
3333.0	8 ± 1.8
10000.0	8 ± 1.5 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	607 ± 16.8
Positive Control ⁵	
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	203 ± 3.3	189 ± 6.4	167 ± 12.7	210 ± 7.0	230 ± 3.3
3.0		173 ± 5.4	165 ± 9.5		
10.0		174 ± 7.8	160 ± 12.9		
33.0		200 ± 7.3	156 ± 4.6	218 ± 7.1	
100.0	209 ± 0.6	183 ± 3.2	165 ± 1.5	219 ± 7.3	235 ± 4.7
333.0	194 ± 2.3	188 ± 10.4	148 ± 9.2	209 ± 9.1	226 ± 1.0
1000.0	209 ± 1.8			208 ± 6.7	236 ± 8.5
3333.0	176 ± 2.8			203 ± 5.8	227 ± 5.5
10000.0	192 ± 10.8 ^p				197 ± 8.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				367 ± 10.4	
Positive Control ⁴					442 ± 3.5
Positive Control ⁷	742 ± 42.2	400 ± 4.0	978 ± 54.7		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	205 ± 2.5	210 ± 8.4
3.0		
10.0		
33.0	184 ± 7.0	
100.0	202 ± 10.9	191 ± 22.6
333.0	189 ± 5.5	211 ± 13.0
1000.0	177 ± 8.4	202 ± 23.0
3333.0	174 ± 3.7	150 ± 8.2
10000.0		129 ± 11.7 ^p
Trial Summary	Negative	Negative
Positive Control ²	878 ± 12.2	
Positive Control ³		436 ± 2.2
Positive Control ⁴		
Positive Control ⁷		

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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	33 ± 2.7	23 ± 2.9	42 ± 5.3	49 ± 4.7	41 ± 2.1
3.0	31 ± 1.2	28 ± 3.5			
10.0	34 ± 3.5	23 ± 2.9			
33.0	29 ± 4.0	13 ± 2.1	30 ± 1.5		39 ± 5.6
100.0	29 ± 0.6	21 ± 1.7	31 ± 4.5	45 ± 3.0	40 ± 0.9
333.0	24 ± 1.7 ^s	24 ± 3.8	24 ± 2.3	45 ± 5.0	41 ± 4.9
1000.0			24 ± 3.9	41 ± 6.1	43 ± 3.5
3333.0			25 ± 0.9	39 ± 5.2	38 ± 6.1
10000.0				43 ± 1.5 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1230 ± 19.4
Positive Control ³			394 ± 6.3	125 ± 31.8	
Positive Control ⁸	680 ± 31.5	503 ± 12.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 1.8
3.0	
10.0	
33.0	
100.0	36 ± 3.2
333.0	37 ± 2.6
1000.0	30 ± 4.8
3333.0	30 ± 0.3
10000.0	32 ± 1.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	542 ± 38.6
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- s: Slight Toxicity

** END OF REPORT **