

Experiment Number: 960729

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl biphenyl (mixed isomers)

CAS Number: 28652-72-4

Date Report Requested: 09/17/2018

Time Report Requested: 21:20:53

NTP Study Number:

960729

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	112 ± 11.0	94 ± 7.0	91 ± 6.4	159 ± 4.9	106 ± 8.7
0.1		92 ± 4.0			
0.3	109 ± 4.4	94 ± 7.0			
1.0	94 ± 5.2	95 ± 10.9			
3.0	115 ± 8.2	95 ± 11.0			
10.0	105 ± 7.9	72 ± 3.2 ^s	117 ± 15.3	161 ± 13.1	104 ± 9.9
16.0	67 ± 13.3 ^s				
33.0			126 ± 6.0	169 ± 10.0	98 ± 3.6
100.0			100 ± 6.3	150 ± 12.7	91 ± 7.4
333.0			105 ± 10.0	92 ± 0.3	86 ± 7.4
666.0			85 ± 4.7 ^s		81 ± 8.4 ^s
1000.0				66 ± 5.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					691 ± 48.0
Positive Control ³			553 ± 18.8		
Positive Control ⁴	394 ± 24.4	450 ± 20.9			
Positive Control ⁵				627 ± 22.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 3.6
0.1	
0.3	
1.0	
3.0	
10.0	147 ± 18.3
16.0	
33.0	143 ± 6.0
100.0	145 ± 13.6
333.0	117 ± 7.3
666.0	
1000.0	69 ± 3.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	645 ± 37.1
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	23 ± 2.0	13 ± 1.5	16 ± 1.8	14 ± 1.0	14 ± 2.0
0.1		18 ± 1.7			
0.3	18 ± 4.2	16 ± 2.1			
1.0	14 ± 1.8	16 ± 2.4			
3.0	15 ± 1.7	14 ± 1.5			
10.0	10 ± 0.9	8 ± 3.3 ^s	16 ± 2.0	13 ± 0.7	14 ± 0.9
16.0	1 ± 0.7 ^s				
33.0			14 ± 3.3	15 ± 1.9	10 ± 1.7
100.0			10 ± 2.7	10 ± 2.3	10 ± 3.0
333.0			10 ± 2.6 ^s	6 ± 0.3	7 ± 1.2 ^s
666.0			2 ± 1.0 ^s		2 ± 1.0 ^s
1000.0				10 ± 2.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					195 ± 16.6
Positive Control ⁴	506 ± 24.1	293 ± 9.0			
Positive Control ⁵			130 ± 11.5		
Positive Control ⁶				60 ± 2.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.0
0.1	
0.3	
1.0	
3.0	
10.0	11 ± 1.5
16.0	
33.0	7 ± 1.5
100.0	11 ± 1.2
333.0	9 ± 1.2
666.0	
1000.0	5 ± 0.3 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	340 ± 22.8
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	153 ± 7.7	140 ± 7.2	162 ± 6.7	206 ± 3.9	159 ± 10.7
0.1		143 ± 14.0			
0.3	166 ± 13.3	169 ± 15.7			
1.0	150 ± 2.1	146 ± 3.8			
3.0	154 ± 12.2	149 ± 3.0			
10.0	131 ± 4.4	111 ± 6.5 ^s	177 ± 11.4	197 ± 17.5	156 ± 7.6
16.0	98 ± 12.3 ^s				
33.0			155 ± 8.7	168 ± 20.2	142 ± 1.0
100.0			157 ± 14.1	166 ± 3.8	136 ± 9.0
333.0			133 ± 14.3	147 ± 4.8	134 ± 8.8
666.0			118 ± 2.5		142 ± 4.6
1000.0				117 ± 6.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					620 ± 34.7
Positive Control ³			617 ± 4.7		
Positive Control ⁵				454 ± 25.6	
Positive Control ⁷	415 ± 11.2	388 ± 27.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 8.7
0.1	
0.3	
1.0	
3.0	
10.0	193 ± 12.4
16.0	
33.0	171 ± 11.7
100.0	166 ± 6.7
333.0	138 ± 6.6
666.0	
1000.0	90 ± 3.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	368 ± 24.9
Positive Control ⁵	
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	22 ± 2.2	20 ± 3.1	41 ± 2.9	48 ± 2.8	33 ± 3.7
0.1		21 ± 2.2			
0.3	18 ± 0.0	27 ± 3.5			
1.0	21 ± 2.0	24 ± 4.3			
3.0	27 ± 2.8	24 ± 4.2			
10.0	17 ± 1.7	16 ± 2.6	40 ± 7.5	41 ± 5.4	27 ± 1.7
16.0	0 ± 0.0 ^s				
33.0			44 ± 4.8	40 ± 2.0	35 ± 2.3
100.0			21 ± 3.0	37 ± 5.9	31 ± 3.0
333.0			29 ± 1.2	32 ± 3.0	27 ± 1.5
666.0			25 ± 0.9 ^s		18 ± 0.9 ^s
1000.0				16 ± 1.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					725 ± 35.2
Positive Control ³			197 ± 20.1	192 ± 3.2	
Positive Control ⁸	505 ± 19.5	487 ± 44.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	34 ± 3.0
0.1	
0.3	
1.0	
3.0	
10.0	37 ± 2.4
16.0	
33.0	36 ± 3.2
100.0	30 ± 3.9
333.0	33 ± 3.5
666.0	
1000.0	19 ± 0.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	489 ± 16.0
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: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****