

Experiment Number: 381606

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Nitro-1,1'-biphenyl

CAS Number: 86-00-0

Date Report Requested: 09/14/2018

Time Report Requested: 09:14:14

NTP Study Number:

381606

Study Result:

Negative

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CAS Number: 86-00-0

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	129 ± 2.9	140 ± 11.1	161 ± 7.6	143 ± 7.4	159 ± 8.5
1.0		126 ± 12.8			
3.0	137 ± 12.2	143 ± 6.7	156 ± 3.5	151 ± 10.3	
10.0	142 ± 16.7	138 ± 11.0	155 ± 9.2	142 ± 16.2	155 ± 16.2
33.0	125 ± 2.2	136 ± 6.1	149 ± 7.9	148 ± 10.8	164 ± 15.1
66.0		78 ± 4.2 ^s			
100.0	84 ± 4.3 ^s		167 ± 3.5	148 ± 17.3	164 ± 2.5
333.0	38 ± 10.4 ^s		121 ± 12.9	135 ± 3.3	120 ± 7.2
666.0					41 ± 6.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					794 ± 9.2
Positive Control ³			486 ± 17.6	398 ± 18.4	
Positive Control ⁴	331 ± 8.4	526 ± 14.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	147 ± 7.2
1.0	
3.0	149 ± 8.1
10.0	149 ± 7.7
33.0	157 ± 8.0
66.0	
100.0	171 ± 2.5
333.0	173 ± 5.5
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	692 ± 28.9
Positive Control ⁴	

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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	27 ± 0.7	20 ± 3.4	10 ± 1.0	16 ± 1.9	9 ± 4.2
1.0		23 ± 2.0			
3.0	22 ± 2.2	25 ± 0.9	11 ± 1.2	11 ± 1.8	
10.0	20 ± 2.2	17 ± 0.9	9 ± 0.7	11 ± 0.3	9 ± 1.7
33.0	20 ± 4.3	22 ± 1.5	8 ± 0.3	10 ± 1.7	10 ± 0.9
66.0		14 ± 1.5 ^s			
100.0	12 ± 0.9 ^s		11 ± 0.9	11 ± 1.3	6 ± 1.0
333.0	8 ± 0.9 ^s		7 ± 1.2	5 ± 3.5	6 ± 0.7
666.0					3 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					231 ± 13.9
Positive Control ⁴	331 ± 7.5	461 ± 17.6			
Positive Control ⁵			142 ± 6.2	122 ± 7.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.3
1.0	
3.0	9 ± 0.7
10.0	11 ± 2.0
33.0	9 ± 0.6
66.0	
100.0	8 ± 2.0
333.0	11 ± 1.0
666.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	427 ± 12.4

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	118 ± 4.9	151 ± 8.4	192 ± 7.1	157 ± 6.8	165 ± 13.0
1.0		162 ± 16.7			
3.0	128 ± 4.9	168 ± 2.1	156 ± 9.5	196 ± 7.5	187 ± 12.2
10.0	136 ± 11.6	162 ± 15.9	173 ± 3.5	205 ± 8.7	196 ± 6.8
33.0	122 ± 4.2	155 ± 8.0	150 ± 8.7	206 ± 7.5	191 ± 9.3
66.0		70 ± 19.5 ^s			
100.0	81 ± 2.3 ^s		147 ± 2.9	201 ± 5.8	182 ± 10.0
166.0			118 ± 3.2		134 ± 6.8
333.0	48 ± 17.7 ^s			136 ± 10.7	
666.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			654 ± 20.8	383 ± 9.5	386 ± 16.8
Positive Control ⁵					
Positive Control ⁶	443 ± 17.8	318 ± 9.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	137 ± 11.4	170 ± 21.9	158 ± 9.5	138 ± 1.5	151 ± 12.5
1.0					
3.0	202 ± 2.2	143 ± 22.0	151 ± 12.3		148 ± 22.6
10.0	201 ± 4.5	165 ± 27.6	152 ± 5.8	162 ± 19.4	155 ± 21.8
33.0	186 ± 13.1	162 ± 12.7	175 ± 18.4	189 ± 3.2	163 ± 19.4
66.0					
100.0	178 ± 5.8	179 ± 12.3	163 ± 6.6	180 ± 3.9	172 ± 17.5
166.0	159 ± 4.5		154 ± 10.1		139 ± 6.9
333.0		137 ± 20.2		133 ± 5.8	
666.0				67 ± 6.9 ^s	
Trial Summary	Equivocal	Negative	Negative	Equivocal	Negative
Positive Control ²			972 ± 12.3	514 ± 13.1	596 ± 7.6
Positive Control ³					
Positive Control ⁵	393 ± 7.6	357 ± 23.0			
Positive Control ⁶					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	162 ± 8.1	150 ± 8.5
1.0		
3.0	161 ± 7.5	155 ± 2.0
10.0	174 ± 17.9	160 ± 4.0
33.0	196 ± 5.4	172 ± 13.2
66.0		
100.0	171 ± 4.7	154 ± 8.7
166.0	169 ± 11.3	
333.0		150 ± 17.0
666.0		
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³	388 ± 5.8	450 ± 9.2
Positive Control ⁵		
Positive Control ⁶		

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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	27 ± 1.2	22 ± 2.7	40 ± 2.1	29 ± 0.7	28 ± 1.2
1.0		21 ± 1.7			
3.0	27 ± 1.3	24 ± 3.7	33 ± 6.2	33 ± 2.8	
10.0	24 ± 1.3	17 ± 1.2	32 ± 5.2	26 ± 3.5	31 ± 2.3
33.0	16 ± 1.3	17 ± 1.8	29 ± 3.6	29 ± 3.9	30 ± 0.9
66.0		7 ± 2.6 ^s			
100.0	9 ± 2.2 ^s		31 ± 0.9	32 ± 2.2	29 ± 3.4
333.0	6 ± 2.3 ^s		27 ± 4.6	17 ± 2.1	21 ± 2.0
666.0					15 ± 3.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					507 ± 12.7
Positive Control ³			182 ± 18.2	102 ± 3.0	
Positive Control ⁷	729 ± 20.0	1143 ± 19.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 2.3
1.0	
3.0	26 ± 3.3
10.0	26 ± 4.1
33.0	24 ± 2.7
66.0	
100.0	30 ± 3.1
333.0	20 ± 0.6
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	401 ± 69.3
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: 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: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****