

Experiment Number: 071122

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

G06: Ames Summary Data

Test Compound: **5-Methyl-2-nitroaniline**

CAS Number: **578-46-1**

Date Report Requested: **09/10/2018**

Time Report Requested: **19:02:13**

NTP Study Number:

071122

Study Result:

Negative

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Test Compound: 5-Methyl-2-nitroaniline

CAS Number: 578-46-1

Date Report Requested: 09/10/2018

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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	97 ± 1.9	104 ± 4.5	107 ± 4.5	90 ± 1.2	106 ± 4.3
10.0	92 ± 3.0	95 ± 4.8			
33.0	91 ± 5.8	95 ± 3.2		103 ± 5.5	
100.0	82 ± 7.0	88 ± 10.4	93 ± 6.2	100 ± 1.0	98 ± 4.8
333.0	87 ± 5.3	78 ± 9.3	86 ± 3.7	108 ± 5.5	105 ± 1.0
500.0		45 ± 3.2 ^s	62 ± 1.5		79 ± 4.4
1000.0	73 ± 3.4 ^s		63 ± 5.5	86 ± 7.1 ^s	84 ± 6.4
2000.0			24 ± 2.5 ^s		30 ± 5.9 ^s
3333.0				23 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					345 ± 18.4
Positive Control ³	475 ± 5.7	318 ± 13.3			
Positive Control ⁴			302 ± 15.0		
Positive Control ⁵					
Positive Control ⁶				310 ± 10.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	93 ± 5.0
10.0	
33.0	87 ± 8.1
100.0	91 ± 10.4
333.0	92 ± 6.9
500.0	
1000.0	103 ± 7.1
2000.0	
3333.0	41 ± 4.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	470 ± 19.2
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	31 ± 3.7	17 ± 1.8	6 ± 2.3	19 ± 2.1	8 ± 1.5
10.0	36 ± 3.7	16 ± 1.2			
33.0	42 ± 3.8	14 ± 0.3		15 ± 3.8	
100.0	40 ± 1.8	14 ± 1.0	8 ± 0.3	16 ± 1.5	9 ± 2.4
333.0	36 ± 3.8	12 ± 0.7	7 ± 1.5	16 ± 1.8	8 ± 3.5
500.0		8 ± 1.2 ^s	8 ± 0.7		9 ± 2.3
1000.0	46 ± 2.6 ^s		6 ± 1.2	18 ± 3.8	6 ± 0.3
2000.0			2 ± 0.6 ^s		4 ± 1.2 ^s
3333.0				1 ± 0.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					31 ± 1.7
Positive Control ³	303 ± 9.1	193 ± 9.3			
Positive Control ⁵					
Positive Control ⁶			95 ± 12.5	53 ± 10.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.7
10.0	
33.0	11 ± 2.9
100.0	11 ± 1.7
333.0	12 ± 3.8
500.0	
1000.0	12 ± 0.3
2000.0	
3333.0	1 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	69 ± 9.2
Positive Control ⁶	

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Test Compound: 5-Methyl-2-nitroaniline

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Date Report Requested: 09/10/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.3	8 ± 0.3	5 ± 2.3	20 ± 2.8	7 ± 1.5
10.0	6 ± 2.0	5 ± 1.3			
33.0	6 ± 2.0	6 ± 1.5		17 ± 3.4	
100.0	9 ± 3.0	5 ± 0.9	7 ± 2.1	18 ± 2.6	7 ± 0.3
333.0	6 ± 1.2 ^s	6 ± 2.0	8 ± 2.0	22 ± 0.9	11 ± 2.6
500.0		5 ± 0.6 ^s	6 ± 0.9		9 ± 0.3
1000.0	6 ± 1.5 ^s		7 ± 1.5	19 ± 1.5	6 ± 0.3
2000.0			5 ± 1.7 ^s		6 ± 1.5 ^s
3333.0				6 ± 0.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					113 ± 5.2
Positive Control ⁶			110 ± 2.5		
Positive Control ⁷				42 ± 3.5	
Positive Control ⁸	153 ± 11.8	25 ± 9.2			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.9
10.0	
33.0	8 ± 0.9
100.0	13 ± 1.7
333.0	11 ± 1.0
500.0	
1000.0	9 ± 1.5
2000.0	
3333.0	4 ± 2.3 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	305 ± 28.3
Positive Control ⁸	

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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	63 ± 4.8	74 ± 4.7	111 ± 14.0	176 ± 6.1	95 ± 7.0
10.0	73 ± 2.0	63 ± 3.3		120 ± 6.4	
33.0	64 ± 6.7	66 ± 2.1		115 ± 4.5	
100.0	51 ± 10.8	65 ± 7.5	81 ± 5.3	108 ± 9.0	96 ± 5.7
333.0	27 ± 8.6 ^s	58 ± 5.2	92 ± 3.2	70 ± 3.9 ^s	100 ± 3.2
500.0		34 ± 4.3 ^s	57 ± 3.2		90 ± 6.7
1000.0	14 ± 11.0 ^s		76 ± 5.9	19 ± 5.0 ^s	82 ± 1.9
2000.0			36 ± 4.4 ^s		36 ± 1.5 ^s
3333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					799 ± 32.6
Positive Control ⁶			804 ± 39.7		
Positive Control ⁷				363 ± 16.5	
Positive Control ⁹	188 ± 7.8	148 ± 5.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	124 ± 8.9
10.0	
33.0	113 ± 2.9
100.0	129 ± 6.7
333.0	109 ± 4.0
500.0	
1000.0	100 ± 3.1
2000.0	
3333.0	20 ± 0.7 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	1275 ± 39.6
Positive Control ⁹	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 6% Hamster S9
Vehicle Control ¹	16 ± 0.6	17 ± 2.6	32 ± 1.2	28 ± 2.0	33 ± 2.4
10.0	18 ± 2.3	18 ± 3.1			
33.0	16 ± 1.2	14 ± 1.5		26 ± 4.7	31 ± 2.9
100.0	13 ± 1.2	17 ± 1.2	23 ± 4.7	27 ± 3.7	32 ± 0.6
333.0	27 ± 3.2	16 ± 0.9	26 ± 2.6	25 ± 3.5	45 ± 2.7
500.0		13 ± 2.0 ^s	24 ± 3.0		
1000.0	16 ± 0.7 ^s		18 ± 0.9	25 ± 3.8	43 ± 2.3
2000.0			20 ± 2.3 ^s		
3333.0				25 ± 6.4 ^s	30 ± 6.7 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²			73 ± 3.8		69 ± 4.5
Positive Control ⁵				81 ± 6.2	
Positive Control ¹⁰	224 ± 13.4	124 ± 2.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 2.6
10.0	
33.0	
100.0	34 ± 2.8
333.0	29 ± 1.2
500.0	29 ± 2.5
1000.0	32 ± 4.0
2000.0	17 ± 2.1 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	144 ± 9.1
Positive Control ⁵	
Positive Control ¹⁰	

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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: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****