

Experiment Number: 789993

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

**G06: Ames Summary Data**

Test Compound: **2'-Methyl-4-dimethylaminobenzene**

CAS Number: 3731-39-3

Date Report Requested: **09/18/2018**

Time Report Requested: **05:54:30**

**NTP Study Number:**

789993

**Study Result:**

Equivocal

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	112 ± 6.8	92 ± 5.8	145 ± 7.6	145 ± 5.7	166 ± 8.7
3.3	105 ± 6.4	88 ± 3.9	188 ± 12.0	155 ± 17.0	178 ± 16.5
10.0	100 ± 5.7	86 ± 1.9	208 ± 6.2	163 ± 16.5	160 ± 6.5
33.0	120 ± 11.5	91 ± 4.6	170 ± 8.0	164 ± 5.2	180 ± 15.0
100.0	103 ± 6.2	96 ± 6.4	198 ± 0.9	169 ± 14.7	191 ± 12.7
333.0	107 ± 3.0	94 ± 3.2	215 ± 9.0	186 ± 22.4	204 ± 32.5
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control <sup>2</sup>			414 ± 16.8	838 ± 67.6	975 ± 80.2
Positive Control <sup>3</sup>	465 ± 19.4	432 ± 29.9			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	150 ± 4.4
3.3	158 ± 4.6
10.0	156 ± 7.4
33.0	158 ± 2.3
100.0	170 ± 3.5
333.0	182 ± 8.4
Trial Summary	Equivocal
Positive Control <sup>2</sup>	966 ± 76.2
Positive Control <sup>3</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 0.5	13 ± 2.6	13 ± 2.0	9 ± 1.5	16 ± 1.2
3.3	11 ± 3.1	15 ± 0.9	11 ± 1.5	8 ± 0.3	16 ± 3.8
10.0	9 ± 1.2	12 ± 2.6	14 ± 3.3	11 ± 0.9	15 ± 0.6
33.0	7 ± 0.6	9 ± 0.6	14 ± 0.6	11 ± 1.3	18 ± 4.4
100.0	12 ± 2.1	14 ± 0.9	18 ± 3.0	13 ± 0.9	13 ± 1.2
333.0	14 ± 3.5	17 ± 0.3	15 ± 1.5	11 ± 0.7	18 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			44 ± 2.8	53 ± 7.5	94 ± 9.8
Positive Control <sup>3</sup>	636 ± 52.3	756 ± 124.9			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	16 ± 1.0
3.3	14 ± 1.2
10.0	12 ± 2.2
33.0	12 ± 3.1
100.0	12 ± 2.3
333.0	12 ± 3.2
Trial Summary	Negative
Positive Control <sup>2</sup>	162 ± 49.3
Positive Control <sup>3</sup>	

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Test Compound: 2'-Methyl-4-dimethylaminobenzene  
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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 1.2	8 ± 0.9	13 ± 1.2	9 ± 2.3	13 ± 1.8
3.3	7 ± 0.6	6 ± 0.6	13 ± 1.7	6 ± 1.9	9 ± 1.5
10.0	9 ± 0.7	6 ± 0.9	15 ± 2.1	6 ± 1.5	15 ± 2.5
33.0	6 ± 1.2	5 ± 0.9	11 ± 0.3	9 ± 0.9	12 ± 0.7
100.0	11 ± 1.9	5 ± 2.1	13 ± 0.3	8 ± 0.7	12 ± 1.5
333.0	10 ± 2.3	8 ± 2.0	13 ± 1.5		13 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			32 ± 4.1	28 ± 2.2	70 ± 5.6
Positive Control <sup>4</sup>	156 ± 39.4	623 ± 148.6			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 2.0
3.3	5 ± 0.6
10.0	9 ± 0.9
33.0	6 ± 0.9
100.0	8 ± 0.0
333.0	9 ± 0.0
Trial Summary	Negative
Positive Control <sup>2</sup>	51 ± 7.4
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 2.9	17 ± 0.5	29 ± 0.9	35 ± 2.8	23 ± 0.3
3.3	15 ± 2.3	19 ± 2.5	30 ± 3.8	38 ± 1.2	29 ± 3.0
10.0	15 ± 2.9	16 ± 2.2	42 ± 2.0	46 ± 2.6	36 ± 2.2
33.0	14 ± 2.1	19 ± 3.5	46 ± 1.8	45 ± 8.4	42 ± 6.9
100.0	13 ± 1.2	17 ± 2.5	47 ± 2.3	45 ± 5.7	41 ± 6.5
333.0	17 ± 0.0	18 ± 2.7	40 ± 4.0	40 ± 4.6	39 ± 1.5
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control <sup>2</sup>			406 ± 39.2	411 ± 23.5	598 ± 37.4
Positive Control <sup>5</sup>	235 ± 36.3	182 ± 26.4			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	35 ± 6.2
3.3	45 ± 0.3
10.0	54 ± 0.6
33.0	59 ± 4.7
100.0	46 ± 8.5
333.0	50 ± 5.8
Trial Summary	Negative
Positive Control <sup>2</sup>	649 ± 38.8
Positive Control <sup>5</sup>	

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**LEGEND**

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***