

Experiment Number: 973172

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Isoproterenol hydrochloride

CAS Number: 51-30-9

Date Report Requested: 09/18/2018

Time Report Requested: 02:38:57

**NTP Study Number:**

973172

**Study Result:**

Weakly Positive

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	103 ± 4.4	130 ± 7.7	115 ± 0.6	96 ± 5.2	113 ± 2.1
100.0	112 ± 5.9	132 ± 5.0		102 ± 8.1	124 ± 4.1
333.3	97 ± 4.0	134 ± 4.3	108 ± 8.7	106 ± 11.5	104 ± 15.9
1000.0	108 ± 9.5	135 ± 3.8	113 ± 1.5	101 ± 4.3	112 ± 9.6
3333.3	125 ± 6.9	153 ± 6.2	117 ± 3.2	94 ± 3.8	112 ± 13.0
6666.7			122 ± 11.8		
10000.0	169 ± 3.1	175 ± 4.8	149 ± 13.0	113 ± 2.3	121 ± 4.7
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Negative
Positive Control <sup>2</sup>	253 ± 7.5	402 ± 44.8	488 ± 17.0		
Positive Control <sup>3</sup>				514 ± 8.0	800 ± 18.5

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	63 ± 6.1	105 ± 4.3
100.0	103 ± 7.1	109 ± 4.1
333.3	104 ± 2.0	112 ± 11.7
1000.0	90 ± 10.5	138 ± 6.6
3333.3	122 ± 4.9	117 ± 4.4
6666.7		
10000.0	113 ± 14.8	143 ± 10.1
Trial Summary	Equivocal	Equivocal
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	2168 ± 100.8	1290 ± 9.4

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 2.0	15 ± 1.2	7 ± 1.3	8 ± 0.6	5 ± 0.3
100.0	9 ± 1.3	15 ± 3.6	12 ± 3.2	8 ± 0.7	8 ± 2.1
333.3	7 ± 1.5	17 ± 1.0	10 ± 2.3	6 ± 0.6	5 ± 1.2
1000.0	5 ± 1.0	15 ± 1.2	9 ± 2.1	7 ± 1.7	7 ± 0.6
3333.3	6 ± 0.6	16 ± 1.5	11 ± 1.5	7 ± 0.9	6 ± 0.3
10000.0	7 ± 1.5	16 ± 5.5	12 ± 0.3	8 ± 3.2	8 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	248 ± 13.6	153 ± 18.0			
Positive Control <sup>4</sup>			194 ± 10.2	306 ± 22.5	322 ± 52.9

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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>	5 ± 1.5
100.0	15 ± 1.5
333.3	11 ± 2.3
1000.0	16 ± 1.2
3333.3	13 ± 0.6
10000.0	15 ± 1.7
Trial Summary	Equivocal
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	360 ± 10.4

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.3	7 ± 1.2	13 ± 1.9	16 ± 2.4	4 ± 1.5
100.0	4 ± 1.7	12 ± 0.9	14 ± 1.5	10 ± 1.7	5 ± 0.6
333.3	5 ± 2.5	11 ± 3.7	14 ± 3.5	8 ± 1.9	9 ± 0.6
1000.0	5 ± 2.2	11 ± 1.5	12 ± 2.9	11 ± 2.2	4 ± 0.9
3333.3	2 ± 0.0	11 ± 1.3	18 ± 0.9	11 ± 0.9	4 ± 0.6
10000.0	4 ± 0.9	14 ± 1.2	14 ± 2.9	6 ± 2.2	4 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			98 ± 16.6	192 ± 3.9	152 ± 22.0
Positive Control <sup>5</sup>	530 ± 132.9	131 ± 13.5			

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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 ± 0.7
100.0	16 ± 1.7
333.3	15 ± 1.0
1000.0	16 ± 1.9
3333.3	11 ± 2.8
10000.0	14 ± 1.5
Trial Summary	Negative
Positive Control <sup>4</sup>	339 ± 16.0
Positive Control <sup>5</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>	33 ± 2.1	27 ± 3.5	39 ± 5.2	44 ± 4.1	26 ± 2.6
100.0	22 ± 3.6	43 ± 4.1	33 ± 3.8	55 ± 7.6	40 ± 2.1
333.3	26 ± 3.0	31 ± 1.2	37 ± 2.2	45 ± 1.5	Toxic
1000.0	21 ± 3.0	38 ± 5.3	31 ± 3.2	45 ± 2.4	34 ± 3.7
3333.3	29 ± 2.0	43 ± 1.5	32 ± 0.7	36 ± 2.0	34 ± 1.0
10000.0	33 ± 1.5	49 ± 3.2	33 ± 7.9	36 ± 6.3	32 ± 5.4
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>3</sup>			266 ± 17.6	543 ± 68.0	1733 ± 92.8
Positive Control <sup>6</sup>	837 ± 116.2	346 ± 12.7			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	32 ± 0.6
100.0	43 ± 2.9
333.3	46 ± 3.8
1000.0	41 ± 5.0
3333.3	44 ± 3.0
10000.0	39 ± 1.5
Trial Summary	Negative
Positive Control <sup>3</sup>	964 ± 27.2
Positive Control <sup>6</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: Water

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

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