

Experiment Number: 373521

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

**G06: Ames Summary Data**

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **02:48:48**

**NTP Study Number:**

373521

**Study Result:**

Equivocal

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	70 ± 3.9	106 ± 2.7	116 ± 7.1	101 ± 6.9	144 ± 6.5
0.33	72 ± 4.5	111 ± 1.9		105 ± 5.6	148 ± 0.9
1.0	53 ± 6.8	99 ± 10.0		116 ± 10.4	167 ± 1.5
3.3	65 ± 1.5	107 ± 9.7		137 ± 10.7	181 ± 6.9
10.0	64 ± 5.8	105 ± 4.4	116 ± 2.6	134 ± 4.3	177 ± 7.8
16.0			117 ± 3.2		
33.0	77 ± 10.8	105 ± 10.1	123 ± 6.4	134 ± 11.5	172 ± 18.0
66.0			128 ± 4.8		
100.0			111 ± 4.1		
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>2</sup>				306 ± 12.0	465 ± 17.9
Positive Control <sup>3</sup>	375 ± 20.3	507 ± 31.2	557 ± 70.6		

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	148 ± 12.5	123 ± 1.5	143 ± 12.3	151 ± 4.4	155 ± 2.1
0.33			131 ± 1.0	158 ± 14.4	
1.0			119 ± 11.3	153 ± 14.1	
3.3			141 ± 19.7	155 ± 10.0	
10.0	132 ± 9.9	146 ± 9.5	137 ± 4.4	147 ± 11.6	153 ± 4.5
16.0	131 ± 8.9	147 ± 12.2			169 ± 12.8
33.0	146 ± 2.3	156 ± 7.8	119 ± 3.2	150 ± 12.1	173 ± 9.4
66.0	126 ± 6.2	134 ± 3.8			153 ± 8.6
100.0	115 ± 2.0	147 ± 3.7			153 ± 8.7
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>	816 ± 60.8	612 ± 35.1	831 ± 172.6	1024 ± 37.7	817 ± 12.8
Positive Control <sup>3</sup>					

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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>	136 ± 7.0
0.33	
1.0	
3.3	
10.0	132 ± 4.4
16.0	127 ± 2.7
33.0	136 ± 11.7
66.0	131 ± 11.3
100.0	140 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	1090 ± 54.0
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Ferrocene

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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>	6 ± 3.0	4 ± 1.0	3 ± 1.5	8 ± 2.4	6 ± 2.2
0.33	4 ± 1.2	5 ± 0.9	4 ± 1.0	8 ± 2.5	7 ± 1.3
1.0	2 ± 2.0	5 ± 2.1	3 ± 0.9	10 ± 1.2	6 ± 0.3
3.3	1 ± 0.3	3 ± 1.5	7 ± 0.9	11 ± 4.2	7 ± 1.2
10.0	5 ± 1.0	4 ± 0.3	6 ± 2.0	6 ± 0.6	7 ± 1.2
33.0	3 ± 0.3	6 ± 2.3	5 ± 0.3	10 ± 1.5	5 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			23 ± 4.3	36 ± 2.6	32 ± 14.1
Positive Control <sup>3</sup>	343 ± 4.4	419 ± 73.7			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.0
0.33	6 ± 1.2
1.0	7 ± 0.9
3.3	8 ± 0.3
10.0	5 ± 3.0
33.0	5 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	85 ± 6.1
Positive Control <sup>3</sup>	

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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>	3 ± 1.2	4 ± 1.3	2 ± 0.3	6 ± 2.3	6 ± 1.0
0.33	2 ± 1.2	4 ± 0.6	3 ± 0.9	10 ± 1.8	6 ± 0.3
1.0	3 ± 0.7	5 ± 0.7	6 ± 2.1	10 ± 3.8	4 ± 1.0
3.3	3 ± 0.6	4 ± 0.6	5 ± 1.3	6 ± 1.0	5 ± 2.2
10.0	9 ± 3.4	7 ± 2.6	5 ± 1.0	11 ± 2.8	7 ± 0.7
33.0	2 ± 0.3	3 ± 0.9	5 ± 0.7	9 ± 3.2	4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			28 ± 11.0	28 ± 2.0	31 ± 12.9
Positive Control <sup>4</sup>	105 ± 31.5	215 ± 30.4			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.9
0.33	9 ± 1.5
1.0	6 ± 1.2
3.3	5 ± 0.6
10.0	8 ± 0.6
33.0	5 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	65 ± 12.7
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>	16 ± 2.1	20 ± 2.3	18 ± 2.3	25 ± 4.4	20 ± 3.8
0.33	15 ± 3.2	19 ± 0.0	25 ± 2.3	31 ± 2.1	25 ± 3.7
1.0	16 ± 1.5	20 ± 0.3	22 ± 2.7	27 ± 2.0	24 ± 1.5
3.3	15 ± 2.3	15 ± 2.0	22 ± 1.7	28 ± 2.2	27 ± 2.7
10.0	12 ± 2.7	19 ± 2.1	20 ± 2.4	29 ± 2.9	27 ± 4.5
33.0	15 ± 2.6	22 ± 1.5	22 ± 1.9	29 ± 2.3	22 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			236 ± 60.5	267 ± 48.4	526 ± 69.2
Positive Control <sup>5</sup>	318 ± 5.5	485 ± 8.7			

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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>	24 ± 3.0
0.33	39 ± 11.9
1.0	27 ± 2.7
3.3	29 ± 3.2
10.0	28 ± 3.0
33.0	26 ± 2.6
Trial Summary	Negative
Positive Control <sup>2</sup>	672 ± 87.9
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 \*\***