

Experiment Number: A34772

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

**G06: Ames Summary Data**

Test Compound: **p-Methylcatechol**

CAS Number: **452-86-8**

Date Report Requested: **09/16/2018**

Time Report Requested: **18:08:40**

**NTP Study Number:**

A34772

**Study Result:**

Equivocal

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## G06: Ames Summary Data

Test Compound: p-Methylcatechol

CAS Number: 452-86-8

Date Report Requested: 09/16/2018

Time Report Requested: 18:08:40

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	119 ± 3.0	135 ± 8.1	132 ± 17.4	137 ± 5.8	153 ± 6.8
3.0		137 ± 7.2			
10.0	120 ± 5.2	140 ± 6.2	146 ± 9.3		167 ± 10.3
33.0	128 ± 8.8	134 ± 3.5	155 ± 3.8	136 ± 6.2	168 ± 5.5
100.0	123 ± 4.2	146 ± 12.4	149 ± 7.7	140 ± 3.4	156 ± 10.7
333.0	120 ± 2.1	116 ± 4.1 <sup>s</sup>	151 ± 7.5	128 ± 0.6	169 ± 4.1
666.0		86 ± 11.0 <sup>s</sup>			
1000.0	76 ± 6.4 <sup>s</sup>		159 ± 2.9	136 ± 5.5	179 ± 8.4
3333.0				74 ± 10.4 <sup>s</sup>	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1187 ± 54.0
Positive Control <sup>3</sup>			784 ± 13.2		
Positive Control <sup>4</sup>	920 ± 15.6	937 ± 18.3			
Positive Control <sup>5</sup>				560 ± 57.4	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	135 ± 7.8
3.0	
10.0	
33.0	131 ± 11.0
100.0	142 ± 7.9
333.0	129 ± 4.5
666.0	
1000.0	126 ± 5.0
3333.0	84 ± 9.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	596 ± 11.0
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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Test Compound: p-Methylcatechol  
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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 <sup>1</sup>	11 ± 2.1	13 ± 2.1	15 ± 3.8	12 ± 1.5	12 ± 1.2
3.0		17 ± 2.3			
10.0	10 ± 2.0	16 ± 2.6	17 ± 1.0		12 ± 2.7
33.0	7 ± 0.9	14 ± 3.2	13 ± 1.5	9 ± 0.9	11 ± 1.8
100.0	8 ± 1.5	14 ± 3.2	12 ± 2.5	8 ± 0.3	14 ± 0.3
333.0	8 ± 1.2	18 ± 3.7	9 ± 3.2	8 ± 1.2	11 ± 1.2
666.0		9 ± 1.5 <sup>s</sup>			
1000.0	3 ± 0.6 <sup>s</sup>		14 ± 2.7	10 ± 1.5	12 ± 2.7
3333.0				3 ± 0.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					284 ± 8.1
Positive Control <sup>4</sup>	1055 ± 80.3	1005 ± 22.0			
Positive Control <sup>5</sup>			230 ± 10.5		
Positive Control <sup>6</sup>				208 ± 18.7	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 3.2
3.0	
10.0	
33.0	9 ± 0.9
100.0	9 ± 1.8
333.0	10 ± 1.2
666.0	
1000.0	12 ± 2.0
3333.0	4 ± 0.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	254 ± 24.6
Positive Control <sup>6</sup>	

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Test Compound: p-Methylcatechol

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## Strain: TA1537

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.6	10 ± 2.6	9 ± 1.2	7 ± 1.3	10 ± 1.2
3.0	10 ± 0.7	9 ± 0.9	11 ± 1.5	11 ± 4.2	9 ± 0.3
10.0	6 ± 1.5	10 ± 0.0	13 ± 0.6	8 ± 0.9	7 ± 0.9
33.0	7 ± 1.5	8 ± 1.5	11 ± 2.5	7 ± 1.0	6 ± 0.7
100.0	10 ± 0.9	9 ± 2.3	7 ± 0.7	9 ± 1.5	7 ± 0.9
333.0	7 ± 1.3	12 ± 3.4	11 ± 2.3	7 ± 1.0	8 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>				303 ± 5.4	253 ± 21.1
Positive Control <sup>5</sup>	240 ± 21.2	216 ± 11.1			
Positive Control <sup>6</sup>			186 ± 15.0		

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Strain: TA1537

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.7
3.0	8 ± 1.0
10.0	7 ± 1.5
33.0	10 ± 3.8
100.0	6 ± 1.0
333.0	8 ± 0.9
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	204 ± 5.8
Positive Control <sup>6</sup>	

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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 <sup>1</sup>	148 ± 5.8	203 ± 14.7	154 ± 18.5	192 ± 3.8	151 ± 1.2
0.0	0 ± 0.0				
3.0		200 ± 7.8	187 ± 12.2		190 ± 2.6
10.0	149 ± 4.7	189 ± 6.7	179 ± 4.8	206 ± 1.5	197 ± 5.5
33.0	137 ± 0.3	166 ± 10.6	191 ± 13.7	233 ± 6.0	166 ± 12.5
100.0	152 ± 4.7	202 ± 22.2	192 ± 8.0	240 ± 10.1	200 ± 0.6
333.0	138 ± 6.9	205 ± 11.7	167 ± 16.7	242 ± 11.1	229 ± 2.7
666.0		118 ± 8.9 <sup>s</sup>			
1000.0	Toxic			201 ± 12.4	
3333.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>7</sup>			735 ± 16.4		
Positive Control <sup>3</sup>				784 ± 65.3	719 ± 13.9
Positive Control <sup>5</sup>					
Positive Control <sup>8</sup>	570 ± 27.6	533 ± 21.9			



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## Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	194 ± 12.6	184 ± 9.3	155 ± 7.8	187 ± 5.6	166 ± 3.5
0.0					
3.0	182 ± 3.0	206 ± 13.2		190 ± 13.3	
10.0	176 ± 10.7	191 ± 14.8	190 ± 4.3	203 ± 4.7	
33.0	172 ± 23.7	211 ± 6.7	217 ± 8.2	205 ± 7.9	172 ± 13.2
100.0	201 ± 12.5	203 ± 8.8	223 ± 8.1	223 ± 7.1	177 ± 14.4
333.0	174 ± 33.3	209 ± 7.6	232 ± 8.8	236 ± 3.9	186 ± 6.1
666.0					
1000.0			215 ± 10.5		196 ± 16.2
3333.0					83 ± 6.8 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal	Equivocal	Negative
Positive Control <sup>2</sup>		851 ± 26.1	1139 ± 15.6	835 ± 20.5	
Positive Control <sup>7</sup>					
Positive Control <sup>3</sup>					701 ± 53.8
Positive Control <sup>5</sup>	705 ± 17.2				
Positive Control <sup>8</sup>					

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	206 ± 10.0
0.0	
3.0	209 ± 8.8
10.0	207 ± 14.8
33.0	208 ± 8.1
100.0	221 ± 7.3
333.0	211 ± 19.3
666.0	
1000.0	
3333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>7</sup>	
Positive Control <sup>3</sup>	761 ± 21.7
Positive Control <sup>5</sup>	
Positive Control <sup>8</sup>	

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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 <sup>1</sup>	20 ± 2.2	18 ± 4.2	26 ± 6.2	26 ± 2.9	27 ± 0.9
3.0		17 ± 1.5			
10.0	21 ± 2.0	23 ± 3.8	28 ± 0.7		35 ± 3.2
33.0	20 ± 0.7	29 ± 2.0	28 ± 1.3	25 ± 3.0	30 ± 1.2
100.0	22 ± 4.5	32 ± 6.7	25 ± 1.2	23 ± 2.9	32 ± 1.3
333.0	17 ± 0.3	25 ± 6.7	24 ± 1.9	22 ± 5.2	30 ± 1.0
666.0		13 ± 3.8 <sup>s</sup>			
1000.0	8 ± 1.2 <sup>s</sup>		26 ± 1.2	28 ± 5.7	29 ± 1.2
3333.0				8 ± 0.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1285 ± 38.9
Positive Control <sup>3</sup>			811 ± 23.9		
Positive Control <sup>9</sup>	386 ± 38.6	543 ± 16.7			
Positive Control <sup>5</sup>				390 ± 9.8	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 3.5
3.0	
10.0	
33.0	20 ± 2.0
100.0	28 ± 5.2
333.0	24 ± 0.6
666.0	
1000.0	21 ± 3.3
3333.0	12 ± 4.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	450 ± 19.5
Positive Control <sup>9</sup>	
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 2.0 ug/Plate 9-Aminoacridine

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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