

Experiment Number: 013524

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Methoxyflurane

CAS Number: 76-38-0

Date Report Requested: 09/14/2018

Time Report Requested: 06:48:39

**NTP Study Number:**

013524

**Study Result:**

Negative

Experiment Number: 013524

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Methoxyflurane

CAS Number: 76-38-0

Date Report Requested: 09/14/2018

Time Report Requested: 06:48:39

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>		115 ± 14.3			
Vehicle Control <sup>2</sup>	137 ± 1.3		145 ± 12.1	162 ± 0.7	170 ± 4.8
0.05		98 ± 5.8			
0.1		100 ± 6.9			
0.25		73 ± 4.0			
0.5		56 ± 10.3			
33.0	128 ± 3.2		130 ± 10.7		
100.0	138 ± 5.9		128 ± 9.5	136 ± 2.3	166 ± 10.1
333.0	138 ± 6.9		141 ± 12.2	155 ± 3.2	172 ± 15.7
1000.0	128 ± 10.9		125 ± 6.1	142 ± 4.7	147 ± 7.2
1666.0	110 ± 7.8		109 ± 2.4		
3333.0				121 ± 6.3	163 ± 4.5
10000.0				111 ± 3.5	117 ± 10.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>		407 ± 7.2			
Positive Control <sup>6</sup>				585 ± 32.7	
Positive Control <sup>7</sup>	317 ± 9.3		295 ± 7.5		
Positive Control <sup>8</sup>					
Positive Control <sup>9</sup>					627 ± 22.6

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	117 ± 13.4			110 ± 9.0
Vehicle Control <sup>2</sup>		144 ± 2.2	123 ± 7.8	
0.05	122 ± 4.2			83 ± 18.7
0.1	92 ± 5.2			81 ± 3.2
0.25	90 ± 7.5			64 ± 6.7
0.5	44 ± 7.2			32 ± 8.3
33.0				
100.0		154 ± 12.9	132 ± 8.0	
333.0		146 ± 15.3	157 ± 8.4	
1000.0		119 ± 4.3	123 ± 4.6	
1666.0				
3333.0		125 ± 9.6	115 ± 5.5	
10000.0		118 ± 4.7	113 ± 2.6	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>		797 ± 27.7		
Positive Control <sup>4</sup>				515 ± 8.2
Positive Control <sup>5</sup>				
Positive Control <sup>6</sup>			645 ± 37.1	
Positive Control <sup>7</sup>				
Positive Control <sup>8</sup>	512 ± 54.2			
Positive Control <sup>9</sup>				

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## G06: Ames Summary Data

Test Compound: Methoxyflurane

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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>2</sup>	21 ± 2.3	18 ± 1.3	9 ± 0.6	8 ± 1.9	10 ± 1.9
33.0	20 ± 1.5	20 ± 3.2			
100.0	17 ± 2.2	16 ± 1.0	14 ± 1.2	14 ± 2.3	8 ± 3.5
333.0	21 ± 1.7	15 ± 0.3	12 ± 2.5	12 ± 2.3	7 ± 1.3
1000.0	20 ± 0.9	13 ± 2.1	12 ± 1.5	15 ± 1.7	9 ± 1.2
1666.0	8 ± 2.1 <sup>s</sup>	9 ± 1.3			
3333.0			11 ± 0.9	11 ± 1.8	10 ± 2.0
10000.0			10 ± 0.6	7 ± 0.9	9 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>					222 ± 11.7
Positive Control <sup>7</sup>	286 ± 6.6	206 ± 5.6			
Positive Control <sup>9</sup>			132 ± 3.1		
Positive Control <sup>10</sup>				86 ± 3.8	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>2</sup>	13 ± 1.2
33.0	
100.0	10 ± 0.3
333.0	13 ± 1.8
1000.0	11 ± 2.9
1666.0	
3333.0	12 ± 1.7
10000.0	14 ± 0.9
Trial Summary	Negative
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	
Positive Control <sup>9</sup>	392 ± 59.3
Positive Control <sup>10</sup>	

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Test Compound: Methoxyflurane

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>2</sup>	176 ± 0.3	190 ± 9.0	200 ± 6.2	215 ± 5.7	139 ± 11.1
33.0	186 ± 6.7	175 ± 13.4			
100.0	198 ± 11.9	187 ± 4.5	234 ± 2.7	234 ± 11.7	124 ± 5.6
333.0	170 ± 9.6	180 ± 12.7	228 ± 5.0	245 ± 3.8	136 ± 9.4
1000.0	186 ± 12.0	169 ± 7.0	226 ± 7.0	254 ± 3.5	119 ± 8.2
1666.0	158 ± 8.4	144 ± 4.8			
3333.0			182 ± 10.4	198 ± 7.0	135 ± 7.5
10000.0			172 ± 0.7	192 ± 13.2	116 ± 8.0
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>6</sup>			346 ± 6.8		
Positive Control <sup>9</sup>				455 ± 13.9	368 ± 12.4
Positive Control <sup>11</sup>	545 ± 18.2	424 ± 2.0			

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**G06: Ames Summary Data**

Test Compound: Methoxyflurane

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>2</sup>	194 ± 10.1	200 ± 15.0
33.0		
100.0	203 ± 8.0	227 ± 9.5
333.0	194 ± 8.7	195 ± 7.2
1000.0	178 ± 9.5	197 ± 6.7
1666.0		
3333.0	173 ± 4.8	185 ± 5.5
10000.0	173 ± 1.9	170 ± 14.5
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>	505 ± 10.3	
Positive Control <sup>6</sup>		452 ± 37.0
Positive Control <sup>9</sup>		
Positive Control <sup>11</sup>		

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## G06: Ames Summary Data

Test Compound: Methoxyflurane

CAS Number: 76-38-0

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>		15 ± 1.9			
Vehicle Control <sup>2</sup>	24 ± 2.3		19 ± 2.1	30 ± 3.0	36 ± 2.7
0.05		18 ± 0.6			
0.1		17 ± 1.5			
0.25		17 ± 3.5			
0.5		15 ± 4.4			
33.0	20 ± 0.3		21 ± 4.3		
100.0	24 ± 1.8		17 ± 2.1	32 ± 3.2	32 ± 2.3
333.0	22 ± 2.8		17 ± 2.6	26 ± 1.2	29 ± 6.8
1000.0	23 ± 2.0		16 ± 1.2	28 ± 1.3	32 ± 3.8
1666.0	18 ± 0.3 <sup>s</sup>		14 ± 2.2		
3333.0				30 ± 3.4	27 ± 1.8
10000.0				18 ± 1.5	26 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>				338 ± 7.0	192 ± 3.2
Positive Control <sup>12</sup>		424 ± 1.7			
Positive Control <sup>13</sup>	474 ± 22.1		530 ± 18.7		



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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 0.6			25 ± 2.9
Vehicle Control <sup>2</sup>		27 ± 4.0	31 ± 0.9	
0.05	17 ± 0.6			20 ± 0.3
0.1	14 ± 0.6			23 ± 1.5
0.25	17 ± 2.0			21 ± 4.0
0.5	13 ± 1.5			14 ± 1.5
33.0				
100.0		34 ± 5.1	30 ± 1.2	
333.0		27 ± 3.2	34 ± 3.3	
1000.0		26 ± 1.2	22 ± 1.9	
1666.0				
3333.0		25 ± 2.3	24 ± 2.6	
10000.0		26 ± 3.8	26 ± 0.3	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>		585 ± 18.1		
Positive Control <sup>4</sup>	162 ± 7.4			497 ± 4.0
Positive Control <sup>6</sup>			489 ± 16.0	
Positive Control <sup>12</sup>				
Positive Control <sup>13</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: 4-Nitro-o-Phenylenediamine
- 2: Vehicle Control: Dimethyl Sulfoxide
- 3: 0.5 ug/Plate 2-Aminoanthracene
- 4: 1.0 mL/Chamber 2-Aminoanthracene
- 5: 1.0 mL/Chamber Sodium Azide
- 6: 1.0 ug/Plate 2-Aminoanthracene
- 7: 1.0 ug/Plate Sodium Azide
- 8: 2.5 mL/Chamber 2-Aminoanthracene
- 9: 2.5 ug/Plate 2-Aminoanthracene
- 10: 5.0 ug/Plate 2-Aminoanthracene
- 11: 50.0 ug/Plate 9-Aminoacridine
- 12: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine
- 13: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

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