

Experiment Number: 006180

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Gallium arsenide

CAS Number: 1303-00-0

Date Report Requested: 09/14/2018

Time Report Requested: 05:48:26

NTP Study Number:

006180

Study Result:

Negative

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Test Compound: Gallium arsenide

CAS Number: 1303-00-0

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 19.5	88 ± 3.7	91 ± 4.5	147 ± 10.6	114 ± 6.8
10.0		115 ± 5.5			
33.0		87 ± 5.9	103 ± 6.4		122 ± 6.2
100.0	95 ± 4.5	101 ± 7.4	109 ± 7.0	113 ± 4.0	86 ± 7.0
333.0	95 ± 1.7	75 ± 4.6	108 ± 3.9	117 ± 9.9	110 ± 8.4
1000.0	81 ± 6.9	75 ± 5.5	89 ± 6.6	126 ± 5.2	102 ± 3.4
3333.0	51 ± 5.9		94 ± 10.7	122 ± 10.9	98 ± 2.9
6666.0	28 ± 5.6				
10000.0				66 ± 9.9 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					738 ± 58.6
Positive Control ³			479 ± 26.3		
Positive Control ⁴	319 ± 10.5	363 ± 17.3			
Positive Control ⁵				447 ± 17.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	132 ± 8.2
10.0	
33.0	
100.0	129 ± 8.4
333.0	143 ± 4.2
1000.0	165 ± 4.4
3333.0	141 ± 3.5
6666.0	
10000.0	54 ± 1.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	399 ± 4.9
Positive Control ⁴	
Positive Control ⁵	

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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 ¹	15 ± 1.2	17 ± 2.1	8 ± 3.5	19 ± 4.4	12 ± 1.3
10.0		17 ± 0.9			
33.0		10 ± 2.0	10 ± 1.2		9 ± 1.2
100.0	14 ± 1.9	10 ± 1.2	11 ± 2.0	18 ± 2.2	11 ± 0.9
333.0	12 ± 3.3	14 ± 1.8	12 ± 1.5	16 ± 1.5	7 ± 1.5
1000.0	11 ± 1.9	9 ± 2.9	11 ± 1.8	11 ± 2.4	9 ± 1.2
3333.0	2 ± 0.6		7 ± 2.0	11 ± 0.9	7 ± 1.5
10000.0	0 ± 0.0 ^x			6 ± 1.5 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					191 ± 10.5
Positive Control ⁴	224 ± 7.3	344 ± 3.8			
Positive Control ⁵			118 ± 25.5		
Positive Control ⁶				99 ± 15.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.2
10.0	
33.0	
100.0	12 ± 1.5
333.0	8 ± 1.5
1000.0	9 ± 0.3
3333.0	5 ± 0.9
10000.0	2 ± 1.9 ^x
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	328 ± 8.0
Positive Control ⁶	

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Date Report Requested: 09/14/2018

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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 ¹	159 ± 2.3	150 ± 8.7	172 ± 14.2	190 ± 3.3	180 ± 7.0
10.0		146 ± 3.3			
33.0		148 ± 11.0	176 ± 10.4		203 ± 2.0
100.0	142 ± 4.9	153 ± 3.8	172 ± 6.4	215 ± 4.3	183 ± 11.1
333.0	132 ± 3.2	117 ± 11.9	174 ± 7.3	183 ± 4.7	163 ± 5.9
1000.0	129 ± 16.5	77 ± 7.0	209 ± 40.6	189 ± 8.4	172 ± 7.0
3333.0	48 ± 9.9		185 ± 12.5	167 ± 3.6	103 ± 34.6
10000.0	0 ± 0.0 ^x			56 ± 3.8 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			347 ± 3.4		
Positive Control ⁵				425 ± 22.5	370 ± 9.8
Positive Control ⁷	404 ± 15.0	401 ± 29.3			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	144 ± 9.3	134 ± 4.7	170 ± 9.4
10.0			
33.0	138 ± 5.9		160 ± 3.1
100.0	167 ± 8.2	166 ± 18.2	185 ± 7.1
333.0	171 ± 9.1	208 ± 9.6	177 ± 10.5
1000.0	148 ± 6.1	187 ± 10.4	179 ± 7.9
3333.0	138 ± 11.8	145 ± 18.5	174 ± 5.8
10000.0		48 ± 5.2 ^x	
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	519 ± 30.7		
Positive Control ³		436 ± 4.4	396 ± 1.5
Positive Control ⁵			
Positive Control ⁷			

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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 ¹	20 ± 1.5	16 ± 3.5	22 ± 3.0	26 ± 1.3	33 ± 3.5
10.0		15 ± 2.4			
33.0		16 ± 1.2	23 ± 3.3		24 ± 4.4
100.0	16 ± 2.7	17 ± 0.9	19 ± 0.6	25 ± 2.3	29 ± 0.3
333.0	17 ± 1.7	14 ± 1.8	21 ± 3.8	33 ± 3.2	31 ± 3.2
1000.0	16 ± 2.3	9 ± 0.3	18 ± 0.9	26 ± 0.9	28 ± 6.4
3333.0	7 ± 0.3		18 ± 1.2	19 ± 2.2	25 ± 4.4
6666.0	7 ± 1.2				
10000.0				17 ± 4.1 ^P	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					622 ± 25.8
Positive Control ³			344 ± 14.5	83 ± 7.3	
Positive Control ⁸	380 ± 5.6	374 ± 15.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 3.3
10.0	
33.0	
100.0	25 ± 3.2
333.0	27 ± 1.2
1000.0	28 ± 0.9
3333.0	18 ± 2.3
6666.0	
10000.0	23 ± 2.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	147 ± 9.3
Positive Control ⁸	

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	262 ± 25.9	228 ± 13.9	287 ± 31.7	340 ± 18.2	243 ± 6.7
10.0		240 ± 18.1			
33.0		246 ± 7.6	268 ± 25.3		243 ± 14.6
100.0	238 ± 11.6	204 ± 3.3	311 ± 25.9	336 ± 25.1	251 ± 11.6
333.0	159 ± 12.7	162 ± 8.3	295 ± 12.7	367 ± 27.8	209 ± 5.5
1000.0	75 ± 18.7	75 ± 0.7	261 ± 12.3	294 ± 29.6	188 ± 10.7
1666.0					
3333.0	42 ± 10.4		225 ± 21.7	232 ± 36.3	85 ± 23.6
10000.0	0 ± 0.0 ^x			121 ± 14.7 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	805 ± 21.1	627 ± 11.7			
Positive Control ¹⁰			939 ± 10.5	1462 ± 47.5	521 ± 20.5

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Strain: TA102

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	162 ± 8.5	313 ± 5.5	243 ± 3.8
10.0			224 ± 4.8
33.0	178 ± 9.2		177 ± 16.5
100.0	125 ± 8.6	376 ± 8.0	164 ± 3.9
333.0	131 ± 7.8	389 ± 7.9	175 ± 13.3
1000.0	78 ± 14.7	256 ± 24.0	171 ± 4.8
1666.0			160 ± 10.8
3333.0	51 ± 5.1	183 ± 15.3	
10000.0		103 ± 14.0 ^x	
Trial Summary	Negative	Equivocal	Negative
Positive Control ⁹			
Positive Control ¹⁰	534 ± 59.0	450 ± 20.4	549 ± 63.2

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LEGEND

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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 0.5 ug/Plate Mitomycin-C

10: 10.0 ug/Plate Sterigmatocystin

p: Precipitate

x: Slight Toxicity and Precipitate

** END OF REPORT **