

Experiment Number: **A96033**

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

G06: Ames Summary Data

Test Compound: **Capsaicin**

CAS Number: **404-86-4**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:59:10**

NTP Study Number:

A96033

Study Result:

Negative

Experiment Number: A96033
 Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data
 Test Compound: Capsaicin
 CAS Number: 404-86-4

Date Report Requested: 09/15/2018
 Time Report Requested: 16:59:10

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 2.0	132 ± 8.1	134 ± 5.4	126 ± 6.1	125 ± 7.4
3.0	112 ± 5.9	131 ± 11.6			
10.0	116 ± 9.8	151 ± 9.6			
33.0	96 ± 10.2	137 ± 4.6	151 ± 4.9	117 ± 4.6	132 ± 4.6
100.0	100 ± 14.3	130 ± 7.8	150 ± 5.0	122 ± 5.5	143 ± 7.8
333.0	36 ± 2.0 ^s	92 ± 8.1 ^s	135 ± 2.5	126 ± 10.4	128 ± 6.2
1000.0			141 ± 1.5	88 ± 8.3 ^s	145 ± 5.4
3333.0			89 ± 13.6 ^s	38 ± 4.4 ^s	80 ± 16.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					635 ± 14.5
Positive Control ³			537 ± 21.0		
Positive Control ⁴				576 ± 9.6	
Positive Control ⁵	867 ± 23.0	772 ± 23.8			

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Test Compound: Capsaicin
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Date Report Requested: 09/15/2018
Time Report Requested: 16:59:10

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	108 ± 7.1
3.0	
10.0	
33.0	115 ± 3.9
100.0	107 ± 8.1
333.0	121 ± 6.1
1000.0	113 ± 8.5
3333.0	72 ± 14.1 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	644 ± 25.3
Positive Control ⁴	
Positive Control ⁵	

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Date Report Requested: 09/15/2018
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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	12 ± 1.5	8 ± 2.0	11 ± 1.2	12 ± 0.7	10 ± 1.8
3.0	9 ± 1.2	9 ± 2.7			
10.0	6 ± 0.7	9 ± 1.5			
33.0	8 ± 1.2	12 ± 2.0	13 ± 1.0	9 ± 1.5	14 ± 1.2
100.0	6 ± 1.2 ^s	9 ± 3.7	10 ± 2.9	10 ± 1.9	10 ± 2.2
333.0	5 ± 1.3 ^s	6 ± 1.5 ^s	9 ± 2.1	9 ± 2.1	9 ± 2.5
1000.0			8 ± 0.3	9 ± 1.0	11 ± 2.2
3333.0			8 ± 0.7 ^s	11 ± 4.6 ^s	7 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					99 ± 8.4
Positive Control ⁴			97 ± 15.9		
Positive Control ⁵	868 ± 28.9	763 ± 17.9			
Positive Control ⁶				96 ± 8.5	

Experiment Number: A96033
Test Type: Genetic Toxicology - Bacterial
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Test Compound: Capsaicin
CAS Number: 404-86-4

Date Report Requested: 09/15/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.7
3.0	
10.0	
33.0	8 ± 2.3
100.0	6 ± 0.3
333.0	8 ± 1.0
1000.0	7 ± 0.7
3333.0	10 ± 1.9 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	106 ± 15.3
Positive Control ⁵	
Positive Control ⁶	

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Date Report Requested: 09/15/2018
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	136 ± 10.2	165 ± 7.0	188 ± 9.6	197 ± 8.5	158 ± 5.7
3.0	103 ± 10.2	165 ± 4.8			
10.0	92 ± 8.5	157 ± 10.7			
33.0	125 ± 5.2	163 ± 1.0	184 ± 5.7	151 ± 4.7	184 ± 13.3
100.0	116 ± 5.0	162 ± 9.8	178 ± 10.3	136 ± 6.1	161 ± 1.7
333.0	112 ± 6.4 ^s	115 ± 4.6 ^s	191 ± 4.3	157 ± 5.5	179 ± 11.6
1000.0			174 ± 4.0	147 ± 1.7	175 ± 10.8
3333.0			112 ± 7.9 ^s	94 ± 2.1 ^s	111 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					697 ± 10.6
Positive Control ³			647 ± 15.9		
Positive Control ⁴				597 ± 13.9	
Positive Control ⁷	522 ± 21.5	535 ± 37.4			

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Date Report Requested: 09/15/2018
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 1.5
3.0	
10.0	
33.0	159 ± 7.6
100.0	145 ± 11.7
333.0	155 ± 2.2
1000.0	153 ± 5.2
3333.0	78 ± 6.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	538 ± 19.4
Positive Control ⁴	
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	23 ± 4.4	15 ± 3.4	19 ± 1.2	39 ± 3.4	25 ± 2.3
3.0	30 ± 2.1	20 ± 3.4			
10.0	23 ± 2.0	21 ± 0.3			
33.0	29 ± 1.0	19 ± 3.3	24 ± 2.8	43 ± 2.7	22 ± 3.7
100.0	25 ± 2.0	17 ± 0.9	18 ± 3.6	37 ± 7.5	19 ± 0.7
333.0	27 ± 1.5 ^s	9 ± 1.2 ^s	24 ± 3.1	36 ± 2.6	21 ± 0.9
1000.0			21 ± 2.3	28 ± 2.8	15 ± 2.1
3333.0			10 ± 1.7 ^s	22 ± 3.8 ^s	13 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					434 ± 23.2
Positive Control ³			502 ± 82.5		
Positive Control ⁸	346 ± 21.3	453 ± 24.7			
Positive Control ⁴				427 ± 34.1	

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Test Compound: Capsaicin
CAS Number: 404-86-4

Date Report Requested: 09/15/2018
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 5.8
3.0	
10.0	
33.0	38 ± 5.0
100.0	36 ± 2.1
333.0	37 ± 3.5
1000.0	37 ± 3.0
3333.0	28 ± 1.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	556 ± 24.2
Positive Control ⁸	
Positive Control ⁴	

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Date Report Requested: 09/15/2018

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	226 ± 4.6	263 ± 12.3	298 ± 8.5	272 ± 11.9	279 ± 9.5
3.0	240 ± 18.7	233 ± 6.0			
10.0	213 ± 23.2	270 ± 5.7			
33.0	211 ± 28.5	234 ± 10.7	315 ± 1.8	279 ± 18.8	282 ± 9.1
100.0	232 ± 1.3	231 ± 9.2	299 ± 14.7	271 ± 21.2	254 ± 19.6
333.0	161 ± 30.1 ^s	155 ± 22.7 ^s	294 ± 29.2	266 ± 3.2	215 ± 4.1
1000.0			276 ± 23.8	224 ± 7.8	275 ± 6.5
3333.0			189 ± 12.7 ^s	152 ± 23.3 ^s	164 ± 28.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	1145 ± 65.0	1013 ± 56.6			
Positive Control ⁶			868 ± 7.0	940 ± 18.7	878 ± 20.5

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Date Report Requested: 09/15/2018
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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	234 ± 22.8
3.0	
10.0	
33.0	306 ± 10.3
100.0	302 ± 23.3
333.0	292 ± 14.9
1000.0	242 ± 17.4
3333.0	180 ± 12.7 ^s
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	963 ± 7.0

Experiment Number: A96033

Test Type: Genetic Toxicology - Bacterial
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Test Compound: Capsaicin

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Date Report Requested: 09/15/2018

Time Report Requested: 16:59:10

Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	281 ± 8.1	252 ± 12.8	331 ± 7.9	319 ± 12.7	315 ± 11.0
3.0	261 ± 22.1	258 ± 33.0			
10.0	248 ± 2.7	206 ± 36.8			
33.0	250 ± 16.5	206 ± 31.1	365 ± 13.9	296 ± 40.8	339 ± 4.8
100.0	247 ± 16.5	194 ± 44.8	310 ± 5.2	369 ± 15.9	312 ± 9.5
333.0	139 ± 21.7 ^s	70 ± 27.8 ^s	352 ± 21.3	330 ± 16.0	347 ± 17.6
1000.0			190 ± 72.5	329 ± 23.8	270 ± 31.9
3333.0			102 ± 32.5 ^s	194 ± 10.6 ^s	88 ± 9.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			1022 ± 51.3	915 ± 36.2	1143 ± 28.4
Positive Control ¹⁰	947 ± 44.7	1003 ± 17.0			

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Date Report Requested: 09/15/2018
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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	344 ± 16.6
3.0	
10.0	
33.0	273 ± 29.0
100.0	259 ± 19.4
333.0	361 ± 14.1
1000.0	296 ± 25.8
3333.0	175 ± 34.8 ^s
Trial Summary	Negative
Positive Control ⁶	1124 ± 41.9
Positive Control ¹⁰	

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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: 1.0 ug/Plate 2-Aminoanthracene
 - 3: 2.0 ug/Plate 2-Aminoanthracene
 - 4: 5.0 ug/Plate 2-Aminoanthracene
 - 5: 5.0 ug/Plate Sodium Azide
 - 6: 10.0 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: 250.0 ug/Plate Methyl Methane Sulfonate
- s: Slight Toxicity

**** END OF REPORT ****