

Experiment Number: 519172

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

G06: Ames Summary Data

Test Compound: **beta-Cadinene**

CAS Number: **523-47-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **17:28:39**

NTP Study Number:

519172

Study Result:

Negative

Experiment Number: 519172

Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: beta-Cadinene

CAS Number: 523-47-7

Date Report Requested: 09/12/2018

Time Report Requested: 17:28:39

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	91 ± 0.9	119 ± 2.1	90 ± 3.0	101 ± 8.7	104 ± 2.1
10.0	92 ± 4.1				
33.3	88 ± 6.7	135 ± 11.8			
100.0	101 ± 3.5	126 ± 8.4	76 ± 2.5	137 ± 3.8	86 ± 2.9
333.3	88 ± 6.1	111 ± 8.2	89 ± 7.0	130 ± 3.8	92 ± 9.7
1000.0	92 ± 5.7	131 ± 4.4	88 ± 10.1	140 ± 6.4	90 ± 8.2
3333.3		107 ± 22.1 ^s	65 ± 1.5	122 ± 9.1	68 ± 3.7
10000.0			37 ± 3.2 ^s	96 ± 5.0	38 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			458 ± 11.7	800 ± 18.5	1482 ± 54.3
Positive Control ³	352 ± 16.0	402 ± 44.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	103 ± 3.8
10.0	
33.3	
100.0	86 ± 6.2
333.3	80 ± 2.5
1000.0	86 ± 7.2
3333.3	79 ± 8.5
10000.0	57 ± 22.0 ^s
Trial Summary	Negative
Positive Control ²	973 ± 88.4
Positive Control ³	

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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 ¹	11 ± 2.0	11 ± 1.2	7 ± 0.9	5 ± 0.9	5 ± 0.3
10.0	7 ± 1.5				
33.3	10 ± 3.0	13 ± 0.7			
100.0	8 ± 0.3	19 ± 2.7	6 ± 1.5	10 ± 1.9	10 ± 2.2
333.3	9 ± 2.0	16 ± 2.3	4 ± 0.9	9 ± 2.6	3 ± 0.3
1000.0	11 ± 2.5	14 ± 5.0	4 ± 0.7	7 ± 0.6	5 ± 1.0
3333.3		16 ± 4.0	4 ± 1.5	9 ± 1.7	6 ± 1.2
10000.0			2 ± 0.3	55 ± 19.7 ^s	4 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	285 ± 7.8	153 ± 18.0			
Positive Control ⁴			416 ± 18.2	277 ± 26.0	404 ± 18.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.0
10.0	
33.3	
100.0	12 ± 0.9
333.3	5 ± 1.2
1000.0	3 ± 0.6
3333.3	3 ± 0.9
10000.0	10 ± 3.5 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	325 ± 10.4

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: beta-Cadinene

CAS Number: 523-47-7

Date Report Requested: 09/12/2018

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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 ¹	7 ± 0.7	5 ± 1.9	8 ± 0.9	6 ± 1.8	7 ± 1.0
10.0	5 ± 0.0				
33.3	4 ± 0.9	12 ± 2.0			
100.0	6 ± 0.9	8 ± 2.2	3 ± 0.6	7 ± 0.9	4 ± 0.9
333.3	6 ± 0.3	12 ± 2.0	4 ± 0.6	9 ± 2.8	5 ± 0.6
1000.0	3 ± 0.6	9 ± 1.5	4 ± 0.6	6 ± 1.7	5 ± 1.2
3333.3		8 ± 0.9	2 ± 0.7	9 ± 1.7	3 ± 0.7
10000.0			0 ± 0.3 ^s	6 ± 0.3 ^s	2 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			432 ± 25.7	136 ± 5.0	466 ± 35.1
Positive Control ⁵	312 ± 24.1	131 ± 13.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.6
10.0	
33.3	
100.0	4 ± 0.6
333.3	5 ± 0.9
1000.0	5 ± 0.3
3333.3	7 ± 1.7
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ⁴	233 ± 3.3
Positive Control ⁵	

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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 ¹	24 ± 4.2	31 ± 2.9	24 ± 1.8	32 ± 3.2	33 ± 4.1
10.0	27 ± 0.7				
33.3	23 ± 3.2	30 ± 6.2			
100.0	23 ± 4.1	33 ± 3.7	27 ± 3.8	45 ± 4.2	26 ± 3.8
333.3	25 ± 3.4	27 ± 4.0	27 ± 3.2	43 ± 3.8	33 ± 4.2
1000.0	18 ± 1.7	30 ± 3.8	20 ± 0.3	43 ± 0.9	26 ± 1.2
3333.3		29 ± 2.0	13 ± 0.3	52 ± 2.7	21 ± 3.5
10000.0			7 ± 1.2 ^s	40 ± 0.9 ^s	21 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			884 ± 51.3	199 ± 20.8	1222 ± 59.4
Positive Control ⁶	529 ± 11.8	346 ± 12.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 4.6
10.0	
33.3	
100.0	25 ± 2.3
333.3	26 ± 1.5
1000.0	20 ± 2.4
3333.3	29 ± 1.9
10000.0	19 ± 2.9 ^s
Trial Summary	Negative
Positive Control ²	560 ± 10.0
Positive Control ⁶	

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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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****