

Experiment Number: 532340

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

G06: Ames Summary Data

Test Compound: **Riddelliine**

CAS Number: **23246-96-0**

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

Time Report Requested: **23:48:43**

NTP Study Number:

532340

Study Result:

Positive

Experiment Number: 532340

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Riddelliine

CAS Number: 23246-96-0

Date Report Requested: 09/12/2018

Time Report Requested: 23:48:43

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	156 ± 8.4	155 ± 4.4	175 ± 6.8	124 ± 3.8	159 ± 7.1
100.0	134 ± 3.2	112 ± 1.5	174 ± 12.5	190 ± 5.8	198 ± 0.6
333.0	124 ± 1.2	115 ± 3.6	164 ± 11.1	240 ± 5.6	263 ± 10.5
1000.0	136 ± 4.4	129 ± 4.2	186 ± 7.2	331 ± 15.5	326 ± 12.8
3333.0	147 ± 12.7	176 ± 6.7	186 ± 3.5	355 ± 14.9 ^s	370 ± 6.2
5000.0	150 ± 3.0	188 ± 7.8	185 ± 7.4	363 ± 2.1 ^s	381 ± 7.3
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control ²					
Positive Control ³			2373 ± 38.2		
Positive Control ⁴				863 ± 24.8	738 ± 44.4
Positive Control ⁵	1499 ± 63.7	1484 ± 24.8			

Experiment Number: 532340

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Riddelliine

CAS Number: 23246-96-0

Date Report Requested: 09/12/2018

Time Report Requested: 23:48:43

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	160 ± 7.4	117 ± 2.1	113 ± 5.2
100.0	120 ± 7.0	127 ± 11.8	122 ± 11.2
333.0	144 ± 3.5	118 ± 4.5	173 ± 9.7
1000.0	153 ± 4.0	209 ± 13.5	218 ± 11.1
3333.0	166 ± 9.8	291 ± 13.5	315 ± 12.7
5000.0	196 ± 4.6	342 ± 15.1	305 ± 26.4
Trial Summary	Negative	Positive	Positive
Positive Control ²	2108 ± 55.9		
Positive Control ³			
Positive Control ⁴		1009 ± 33.8	889 ± 9.2
Positive Control ⁵			

Experiment Number: 532340

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Riddelliine

CAS Number: 23246-96-0

Date Report Requested: 09/12/2018

Time Report Requested: 23:48:43

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	42 ± 1.8	38 ± 3.8	32 ± 2.1	13 ± 3.0	32 ± 4.3
100.0	35 ± 1.2	26 ± 4.6	22 ± 3.9	14 ± 2.7	22 ± 3.2
333.0	34 ± 2.7	32 ± 5.0	23 ± 3.1	13 ± 4.2	21 ± 0.3
1000.0	34 ± 6.2	29 ± 5.0	20 ± 1.7	8 ± 2.0	20 ± 2.4
3333.0	30 ± 3.6	27 ± 2.2	16 ± 0.9	6 ± 0.6 ^s	19 ± 1.0
5000.0	32 ± 3.8	23 ± 3.5	17 ± 1.7	8 ± 1.2 ^s	23 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					153 ± 6.1
Positive Control ³			171 ± 7.5		
Positive Control ⁴				119 ± 5.0	
Positive Control ⁵	1379 ± 17.9	983 ± 19.6			

Experiment Number: 532340
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Riddelliine
CAS Number: 23246-96-0

Date Report Requested: 09/12/2018
Time Report Requested: 23:48:43

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.9
100.0	9 ± 1.5
333.0	12 ± 2.7
1000.0	13 ± 1.5
3333.0	7 ± 0.7
5000.0	5 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	258 ± 7.9
Positive Control ⁵	

Experiment Number: 532340

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Riddelliine

CAS Number: 23246-96-0

Date Report Requested: 09/12/2018

Time Report Requested: 23:48:43

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	107 ± 5.7	78 ± 4.6	140 ± 6.1	171 ± 4.4	152 ± 2.2
100.0	107 ± 9.0	73 ± 9.8	143 ± 7.4	205 ± 3.7	177 ± 13.4 ^s
333.0	106 ± 6.7	85 ± 0.9	133 ± 5.8	184 ± 6.4	184 ± 11.5 ^s
1000.0	110 ± 5.6	5 ± 1.5	132 ± 5.8	212 ± 4.9	208 ± 20.8 ^s
3333.0	103 ± 2.6	8 ± 0.3	120 ± 7.9	232 ± 13.3 ^s	177 ± 17.9 ^s
5000.0	97 ± 3.7	10 ± 1.0 ^s	147 ± 4.9	248 ± 20.3 ^s	209 ± 3.5 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²					
Positive Control ³			1636 ± 62.9		
Positive Control ⁴				429 ± 3.8	732 ± 2.5
Positive Control ⁶	1009 ± 80.5	698 ± 36.0			

Experiment Number: 532340
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Riddelliine
CAS Number: 23246-96-0

Date Report Requested: 09/12/2018
Time Report Requested: 23:48:43

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	150 ± 6.1	161 ± 3.8
100.0	140 ± 8.8	150 ± 0.6
333.0	139 ± 3.5	160 ± 11.0
1000.0	152 ± 7.2	159 ± 5.0
3333.0	140 ± 1.5	163 ± 2.9
5000.0	141 ± 4.7	168 ± 10.5 ^s
Trial Summary	Negative	Negative
Positive Control ²	1395 ± 54.8	
Positive Control ³		
Positive Control ⁴		573 ± 19.4
Positive Control ⁶		

Experiment Number: 532340
 Test Type: Genetic Toxicology - Bacterial
 Mutagenicity

G06: Ames Summary Data
 Test Compound: Riddelliine
 CAS Number: 23246-96-0

Date Report Requested: 09/12/2018
 Time Report Requested: 23:48:43

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.7	20 ± 3.5	29 ± 1.7	28 ± 2.3	24 ± 2.1
100.0	16 ± 2.8	15 ± 1.0	29 ± 2.1	31 ± 2.7	28 ± 0.7
333.0	16 ± 2.0	16 ± 3.5	39 ± 2.3	25 ± 2.0	32 ± 2.5
1000.0	20 ± 4.3	22 ± 2.3	30 ± 2.1	27 ± 1.9	32 ± 2.1
3333.0	16 ± 3.1	20 ± 5.5	26 ± 0.9	26 ± 2.8 ^s	29 ± 2.7
5000.0	16 ± 0.7	18 ± 6.1	32 ± 4.7	20 ± 5.2 ^s	31 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1076 ± 37.1
Positive Control ³			1731 ± 26.0		
Positive Control ⁴				419 ± 5.0	
Positive Control ⁷	1913 ± 86.1	1392 ± 19.9			

Experiment Number: 532340
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Riddelliine
CAS Number: 23246-96-0

Date Report Requested: 09/12/2018
Time Report Requested: 23:48:43

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 1.2
100.0	27 ± 2.6
333.0	31 ± 2.3
1000.0	29 ± 1.3
3333.0	31 ± 4.3
5000.0	24 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	715 ± 22.8
Positive Control ⁷	

Experiment Number: 532340
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Riddelliine
CAS Number: 23246-96-0

Date Report Requested: 09/12/2018
Time Report Requested: 23:48:43

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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **