

Experiment Number: **A06370**

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

G06: Ames Summary Data

Test Compound: **Ribavirin**

CAS Number: **36791-04-5**

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

Time Report Requested: **15:50:14**

NTP Study Number:

A06370

Study Result:

Negative

Experiment Number: A06370
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Ribavirin
CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
Time Report Requested: 15:50:14

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 9.0	114 ± 3.2	108 ± 4.7	102 ± 2.2	110 ± 1.2
100.0	100 ± 4.0	101 ± 5.2	111 ± 5.2	109 ± 7.5	113 ± 3.0
333.0	91 ± 5.8	105 ± 3.3	111 ± 2.2	99 ± 6.9	112 ± 6.5
1000.0	101 ± 1.3	111 ± 2.6	108 ± 0.9	95 ± 1.9	106 ± 2.7
3333.0	103 ± 4.8	113 ± 2.2	107 ± 4.0	103 ± 4.7	112 ± 2.3
10000.0	92 ± 8.8	107 ± 2.5	109 ± 0.3	86 ± 11.0	99 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					479 ± 5.5
Positive Control ³			368 ± 11.5		
Positive Control ⁴	847 ± 23.6	769 ± 41.1			
Positive Control ⁵				477 ± 12.4	

Experiment Number: A06370
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G06: Ames Summary Data
Test Compound: Ribavirin
CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
Time Report Requested: 15:50:14

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 4.6
100.0	96 ± 2.0
333.0	102 ± 3.9
1000.0	92 ± 2.3
3333.0	97 ± 6.1
10000.0	81 ± 14.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	527 ± 10.1
Positive Control ⁴	
Positive Control ⁵	

Experiment Number: A06370
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G06: Ames Summary Data
Test Compound: Ribavirin
CAS Number: 36791-04-5

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	14 ± 2.7	12 ± 2.5	17 ± 1.7	17 ± 2.2	12 ± 1.7
100.0	13 ± 2.3	13 ± 2.2	16 ± 2.2	18 ± 1.2	14 ± 3.8
333.0	15 ± 3.0	14 ± 2.7	15 ± 1.5	17 ± 1.5	14 ± 2.3
1000.0	13 ± 2.9	17 ± 0.6	14 ± 2.3	15 ± 3.5	16 ± 1.2
3333.0	10 ± 1.5	14 ± 0.9	8 ± 0.7	14 ± 2.4	11 ± 2.3
10000.0	10 ± 2.4	15 ± 2.0	12 ± 2.8	14 ± 0.0	14 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					144 ± 10.0
Positive Control ⁴	663 ± 16.3	811 ± 25.4			
Positive Control ⁵			116 ± 5.5		
Positive Control ⁶				170 ± 6.2	

Experiment Number: A06370
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Ribavirin
CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
Time Report Requested: 15:50:14

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.3
100.0	17 ± 1.8
333.0	13 ± 0.6
1000.0	13 ± 2.3
3333.0	15 ± 0.0
10000.0	11 ± 1.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	265 ± 3.5
Positive Control ⁶	

Experiment Number: A06370
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G06: Ames Summary Data
 Test Compound: Ribavirin
 CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
 Time Report Requested: 15:50:14

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 9.3	127 ± 6.1	158 ± 5.7	173 ± 9.8	122 ± 5.2
100.0	139 ± 7.0	109 ± 7.5	152 ± 10.4	177 ± 11.3	128 ± 9.4
333.0	113 ± 4.8	145 ± 7.1	150 ± 12.2	184 ± 3.0	144 ± 6.8
1000.0	115 ± 8.4	126 ± 7.9	156 ± 2.6	169 ± 5.8	155 ± 9.2
3333.0	106 ± 5.2	116 ± 11.5	144 ± 4.4	183 ± 3.3	159 ± 5.6
10000.0	113 ± 5.3	117 ± 15.4	144 ± 9.4	174 ± 8.1	126 ± 13.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					504 ± 41.3
Positive Control ⁷			456 ± 12.2		
Positive Control ³					
Positive Control ⁵				653 ± 50.1	
Positive Control ⁸	372 ± 14.4	286 ± 7.2			

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G06: Ames Summary Data
Test Compound: Ribavirin
CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
Time Report Requested: 15:50:14

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	160 ± 9.5
100.0	147 ± 10.1
333.0	143 ± 1.7
1000.0	154 ± 3.5
3333.0	173 ± 7.0
10000.0	163 ± 5.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁷	
Positive Control ³	579 ± 30.8
Positive Control ⁵	
Positive Control ⁸	

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G06: Ames Summary Data
 Test Compound: Ribavirin
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Date Report Requested: 09/15/2018
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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	18 ± 1.9	20 ± 2.5	24 ± 3.0	26 ± 1.7	20 ± 3.8
100.0	21 ± 1.7	22 ± 1.7	20 ± 0.6	24 ± 1.7	15 ± 1.8
333.0	19 ± 1.5	15 ± 2.7	20 ± 1.9	22 ± 1.2	20 ± 2.3
1000.0	15 ± 1.9	14 ± 2.6	15 ± 2.4	15 ± 1.9	14 ± 2.9
3333.0	16 ± 0.7	12 ± 1.3	19 ± 2.9	17 ± 2.5	16 ± 1.5
10000.0	17 ± 4.0	11 ± 3.4	20 ± 2.6	16 ± 1.5	21 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					279 ± 20.5
Positive Control ³			213 ± 0.9		
Positive Control ⁹	290 ± 6.2	287 ± 3.8			
Positive Control ⁵				267 ± 15.4	

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G06: Ames Summary Data
Test Compound: Ribavirin
CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
Time Report Requested: 15:50:14

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 4.7
100.0	18 ± 1.5
333.0	16 ± 3.6
1000.0	17 ± 2.0
3333.0	13 ± 1.7
10000.0	15 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	305 ± 3.2
Positive Control ⁹	
Positive Control ⁵	

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G06: Ames Summary Data
 Test Compound: Ribavirin
 CAS Number: 36791-04-5

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	194 ± 3.2	183 ± 13.7	239 ± 15.9	272 ± 5.6	252 ± 17.1
100.0	193 ± 7.2	191 ± 2.3	242 ± 27.0	282 ± 6.8	288 ± 3.2
333.0	210 ± 5.2	187 ± 28.7	234 ± 27.2	258 ± 22.1	258 ± 23.9
1000.0	215 ± 5.9	184 ± 14.7	258 ± 16.2	261 ± 19.7	255 ± 21.4
3333.0	207 ± 7.2	172 ± 24.8	215 ± 5.5	270 ± 6.3	284 ± 3.0
10000.0	194 ± 11.9	166 ± 7.0	257 ± 22.0	233 ± 20.1	260 ± 20.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰		722 ± 33.8			
Positive Control ¹¹	651 ± 15.4				
Positive Control ⁵					1176 ± 28.6
Positive Control ⁶			1060 ± 20.9	635 ± 2.3	

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G06: Ames Summary Data
Test Compound: Ribavirin
CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
Time Report Requested: 15:50:14

Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	267 ± 16.8
100.0	262 ± 26.2
333.0	236 ± 24.1
1000.0	241 ± 14.1
3333.0	230 ± 7.9
10000.0	199 ± 19.4
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ¹¹	
Positive Control ⁵	618 ± 20.0
Positive Control ⁶	

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

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	207 ± 5.0	245 ± 24.5	411 ± 12.1	304 ± 8.6	368 ± 23.0
100.0	232 ± 16.6	249 ± 20.5	400 ± 10.6	328 ± 7.3	399 ± 33.3
333.0	235 ± 7.0	288 ± 9.8	403 ± 1.5	353 ± 9.4	350 ± 7.4
1000.0	217 ± 8.8	262 ± 22.3	409 ± 13.6	355 ± 17.2	380 ± 26.0
3333.0	259 ± 18.6	248 ± 9.4	430 ± 11.7	325 ± 17.2	395 ± 5.3
10000.0	212 ± 37.1	252 ± 11.0	381 ± 17.5	339 ± 24.5	385 ± 9.0
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ¹²					971 ± 12.2
Positive Control ⁵			943 ± 24.3	667 ± 14.1	
Positive Control ¹³	734 ± 13.5	844 ± 8.2			

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Test Compound: Ribavirin
CAS Number: 36791-04-5

Date Report Requested: 09/15/2018
Time Report Requested: 15:50:14

Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	278 ± 7.4
100.0	310 ± 10.3
333.0	323 ± 23.1
1000.0	322 ± 11.8
3333.0	306 ± 1.7
10000.0	293 ± 10.8
Trial Summary	Negative
Positive Control ¹²	639 ± 29.4
Positive Control ⁵	
Positive Control ¹³	

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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 Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 2.0 ug/Plate 9-Aminoacridine
- 8: 50.0 ug/Plate 9-Aminoacridine
- 9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- 10: 0.5 ug/Plate Methyl Methane Sulfonate
- 11: 0.5 ug/Plate Mitomycin-C
- 12: 2.5 ug/Plate 2-Aminoanthracene
- 13: 250.0 ug/Plate Methyl Methane Sulfonate

** END OF REPORT **