

Experiment Number: A11761

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

G06: Ames Summary Data

Test Compound: **4-Hydroxypyrazolo[3,4-d]pyrimidine**

CAS Number: **315-30-0**

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

Time Report Requested: **20:43:11**

NTP Study Number:

A11761

Study Result:

Negative

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Test Compound: 4-Hydroxypyrazolo[3,4-d]pyrimidine
CAS Number: 315-30-0

Date Report Requested: 09/15/2018

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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	102 ± 5.8	107 ± 3.5	114 ± 6.4	116 ± 18.3	112 ± 9.5
100.0	103 ± 7.0	101 ± 4.0	117 ± 5.0	93 ± 6.4	108 ± 5.3
333.0	109 ± 4.8	101 ± 4.0	126 ± 1.2	96 ± 6.2	103 ± 2.9
1000.0	94 ± 3.3	100 ± 4.6	111 ± 4.8	98 ± 6.2	108 ± 8.1
3333.0	95 ± 7.0	91 ± 1.9	114 ± 7.9	111 ± 9.6	108 ± 3.3
10000.0	63 ± 5.8	80 ± 5.8	89 ± 7.8	72 ± 6.2	98 ± 13.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					566 ± 21.7
Positive Control ³			450 ± 17.6		
Positive Control ⁴	855 ± 24.4	1101 ± 10.0			
Positive Control ⁵				509 ± 23.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 3.0
100.0	97 ± 3.2
333.0	101 ± 9.3
1000.0	106 ± 7.5
3333.0	100 ± 8.4
10000.0	62 ± 8.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	538 ± 22.3
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	11 ± 1.5	12 ± 0.0	10 ± 1.3	13 ± 0.9	14 ± 2.0
100.0	10 ± 1.0	9 ± 1.7	11 ± 2.6	10 ± 1.5	13 ± 2.7
333.0	9 ± 1.5	14 ± 1.0	15 ± 3.0	12 ± 3.2	14 ± 1.9
1000.0	12 ± 0.3	15 ± 2.0	13 ± 2.6	14 ± 2.5	11 ± 1.2
3333.0	8 ± 0.6	14 ± 1.5	16 ± 2.8	13 ± 1.3	15 ± 1.3
10000.0	9 ± 1.0	15 ± 1.7	12 ± 0.9	9 ± 1.2	15 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					249 ± 21.4
Positive Control ⁴	933 ± 16.7	1354 ± 17.4			
Positive Control ⁵			217 ± 8.4		
Positive Control ⁶				209 ± 3.6	

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Test Compound: 4-Hydroxypyrazolo[3,4-d]pyrimidine

CAS Number: 315-30-0

Date Report Requested: 09/15/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.9
100.0	13 ± 2.1
333.0	13 ± 1.3
1000.0	13 ± 0.7
3333.0	16 ± 0.9
10000.0	9 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	344 ± 30.7
Positive Control ⁶	

Experiment Number: A11761

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Test Compound: 4-Hydroxypyrazolo[3,4-d]pyrimidine
CAS Number: 315-30-0

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	119 ± 15.3	145 ± 8.1	179 ± 6.1	147 ± 2.3	159 ± 11.0
100.0	127 ± 13.5	154 ± 3.9	175 ± 6.7	130 ± 4.8	155 ± 9.0
333.0	122 ± 9.3	177 ± 3.8	171 ± 3.7	147 ± 5.0	182 ± 3.8
1000.0	103 ± 7.2	165 ± 3.8	184 ± 3.7	172 ± 6.4	166 ± 9.7
3333.0	132 ± 14.0	154 ± 6.6	168 ± 10.7	162 ± 10.8	163 ± 5.3
10000.0	73 ± 13.0 ^s	115 ± 8.3	98 ± 18.9	118 ± 11.2	131 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					780 ± 27.7
Positive Control ³			694 ± 26.4		
Positive Control ⁵				647 ± 26.6	
Positive Control ⁷	549 ± 16.3	808 ± 51.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	120 ± 7.5
100.0	113 ± 2.3
333.0	132 ± 4.5
1000.0	122 ± 4.7
3333.0	129 ± 11.3
10000.0	89 ± 0.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	573 ± 15.5
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	26 ± 2.4	25 ± 0.7	33 ± 1.9	30 ± 1.8	29 ± 3.5
100.0	20 ± 3.4	26 ± 1.8	29 ± 1.0	31 ± 3.0	28 ± 4.0
333.0	24 ± 2.6	27 ± 1.5	28 ± 1.5	27 ± 2.0	31 ± 5.2
1000.0	20 ± 2.7	24 ± 4.8	23 ± 1.0	28 ± 3.8	29 ± 3.2
3333.0	20 ± 2.3	27 ± 0.6	24 ± 3.0	21 ± 1.9	29 ± 4.0
10000.0	15 ± 0.7	18 ± 5.3	27 ± 3.5	25 ± 2.9	28 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					806 ± 17.5
Positive Control ³			531 ± 10.8		
Positive Control ⁸	333 ± 7.9	514 ± 17.1			
Positive Control ⁵				376 ± 12.7	

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Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 2.8
100.0	28 ± 2.9
333.0	24 ± 2.7
1000.0	32 ± 3.1
3333.0	36 ± 1.8
10000.0	25 ± 3.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	413 ± 6.2
Positive Control ⁸	
Positive Control ⁵	

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Strain: TA102

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	236 ± 1.5	342 ± 10.7	317 ± 8.3
100.0	203 ± 2.0	306 ± 1.7	312 ± 5.2
333.0	212 ± 11.7	282 ± 21.2	263 ± 15.5
1000.0	207 ± 4.0	321 ± 12.7	309 ± 13.0
3333.0	223 ± 7.0	353 ± 6.7	363 ± 4.9
10000.0	241 ± 25.9	319 ± 17.5	335 ± 12.4
Trial Summary	Negative	Negative	Negative
Positive Control ⁹	753 ± 3.5		
Positive Control ⁵			684 ± 18.0
Positive Control ⁶		576 ± 17.3	

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Strain: TA104

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	271 ± 20.6	389 ± 16.5	402 ± 16.9
100.0	272 ± 6.3	418 ± 11.3	398 ± 29.9
333.0	263 ± 16.8	414 ± 11.8	389 ± 3.2
1000.0	276 ± 13.1	443 ± 23.4	383 ± 13.4
3333.0	285 ± 3.5	378 ± 7.0	399 ± 12.4
10000.0	249 ± 10.9	287 ± 36.1	314 ± 19.5
Trial Summary	Negative	Negative	Negative
Positive Control ¹⁰			682 ± 33.3
Positive Control ⁵		692 ± 20.9	
Positive Control ¹¹	649 ± 17.5		

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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: 50.0 ug/Plate 9-Aminoacridine

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

9: 0.5 ug/Plate Mitomycin-C

10: 2.5 ug/Plate 2-Aminoanthracene

11: 250.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

**** END OF REPORT ****