

Experiment Number: A00344

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: 10:45:56

NTP Study Number:

A00344

Study Result:

Weakly Positive

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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	162 ± 7.4	95 ± 2.2	82 ± 3.9	211 ± 4.5	117 ± 7.8
100.0	164 ± 5.5	88 ± 3.3	90 ± 6.5	186 ± 13.8	87 ± 3.5
333.0	177 ± 4.7	87 ± 4.8	88 ± 2.6	199 ± 7.8	88 ± 5.2
1000.0	163 ± 13.8	94 ± 4.8	89 ± 2.3	184 ± 18.5	102 ± 3.5
3333.0	169 ± 15.7	92 ± 3.4	89 ± 1.2	185 ± 10.0	97 ± 2.0
10000.0	130 ± 12.9	65 ± 5.6	64 ± 5.9	158 ± 6.6	77 ± 10.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1723 ± 43.9
Positive Control ³			1563 ± 3.5		
Positive Control ⁴	943 ± 20.4	707 ± 28.9			
Positive Control ⁵				1096 ± 52.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	189 ± 7.5
100.0	192 ± 14.1
333.0	190 ± 8.9
1000.0	179 ± 7.4
3333.0	186 ± 7.3
10000.0	139 ± 14.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	954 ± 6.5
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	12 ± 1.5	14 ± 3.4	17 ± 5.0	14 ± 2.6	11 ± 0.3
100.0	8 ± 2.5	13 ± 0.3	12 ± 2.4	13 ± 2.9	9 ± 1.8
333.0	17 ± 3.8	14 ± 1.9	20 ± 3.7	11 ± 1.5	10 ± 1.5
1000.0	10 ± 1.5	20 ± 2.3	18 ± 1.8	11 ± 2.7	14 ± 0.3
3333.0	12 ± 1.9	17 ± 1.0	11 ± 1.5	13 ± 2.5	10 ± 1.2
10000.0	9 ± 0.6	7 ± 2.4	15 ± 0.6	13 ± 3.2	14 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					180 ± 10.3
Positive Control ⁴	629 ± 17.0	687 ± 2.5			
Positive Control ⁵			161 ± 28.7		
Positive Control ⁶				230 ± 5.6	

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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	17 ± 0.3
100.0	11 ± 1.0
333.0	13 ± 2.6
1000.0	12 ± 0.3
3333.0	10 ± 1.5
10000.0	15 ± 3.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	468 ± 7.6
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	117 ± 9.8	141 ± 3.4	148 ± 8.6	140 ± 8.1	153 ± 14.2
100.0	126 ± 13.1	141 ± 3.8	157 ± 5.7	156 ± 13.4	148 ± 3.4
333.0	130 ± 2.0	151 ± 12.3	167 ± 4.5	165 ± 12.1	139 ± 7.2
1000.0	131 ± 8.4	158 ± 2.8	169 ± 8.3	165 ± 10.0	172 ± 8.3
3333.0	118 ± 3.5	156 ± 5.7	172 ± 8.7	140 ± 5.2	149 ± 1.2
10000.0	103 ± 5.7	144 ± 5.8	156 ± 7.8	110 ± 12.6	117 ± 9.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1375 ± 45.3
Positive Control ³			1387 ± 29.8		
Positive Control ⁵					
Positive Control ⁶				518 ± 30.6	
Positive Control ⁷	426 ± 35.3	552 ± 21.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	163 ± 4.9
100.0	165 ± 2.9
333.0	161 ± 5.5
1000.0	152 ± 6.9
3333.0	150 ± 10.5
10000.0	132 ± 3.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	657 ± 33.0
Positive Control ⁶	
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	17 ± 1.5	16 ± 1.5	20 ± 1.3	22 ± 2.9	25 ± 1.9
100.0	13 ± 0.9	13 ± 1.7	20 ± 2.3	25 ± 0.3	18 ± 0.3
333.0	18 ± 3.2	13 ± 0.3	17 ± 1.3	20 ± 2.1	23 ± 2.3
1000.0	16 ± 1.0	14 ± 0.6	20 ± 3.1	22 ± 3.1	20 ± 3.3
3333.0	18 ± 1.5	17 ± 4.4	18 ± 3.5	23 ± 3.2	24 ± 2.0
10000.0	15 ± 0.0	15 ± 3.5	16 ± 2.3	22 ± 3.2	16 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1090 ± 28.7
Positive Control ³			1088 ± 9.6		
Positive Control ⁸	373 ± 6.7	371 ± 7.1			
Positive Control ⁵				641 ± 25.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 2.3
100.0	19 ± 5.2
333.0	22 ± 4.1
1000.0	21 ± 2.3
3333.0	19 ± 1.2
10000.0	21 ± 6.1
Trial Summary	Negative
Positive Control ²	
Positive Control ³	362 ± 28.2
Positive Control ⁸	
Positive Control ⁵	

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	157 ± 5.7	144 ± 15.2	162 ± 4.7	208 ± 3.5	237 ± 8.4
100.0	165 ± 3.1	133 ± 2.0			214 ± 3.3
333.0	180 ± 9.7	125 ± 5.8	151 ± 1.2	210 ± 0.3	202 ± 5.8
1000.0	191 ± 5.0	149 ± 5.2	176 ± 5.7	230 ± 7.0	250 ± 7.9
3333.0	218 ± 10.3	174 ± 5.0	202 ± 10.7	232 ± 11.8	247 ± 25.7
6666.0			219 ± 5.0	252 ± 9.6	
10000.0	250 ± 6.9	211 ± 14.6	250 ± 7.9	284 ± 9.3	330 ± 9.5
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Equivocal	Equivocal
Positive Control ⁹	937 ± 7.1	662 ± 38.2			
Positive Control ¹⁰			734 ± 13.5		
Positive Control ⁵					
Positive Control ⁶				1040 ± 20.9	915 ± 50.0

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Strain: TA102

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	249 ± 0.9	272 ± 31.5	181 ± 4.6	190 ± 10.0	245 ± 6.0
100.0		267 ± 11.5		195 ± 9.5	
333.0	234 ± 12.0	263 ± 6.4	168 ± 2.4	221 ± 6.1	256 ± 3.5
1000.0	240 ± 5.7	254 ± 18.2	184 ± 11.6	259 ± 3.0	272 ± 14.8
3333.0	296 ± 10.3	244 ± 10.7	219 ± 0.9	293 ± 5.3	300 ± 9.6
6666.0	337 ± 17.8		222 ± 16.9		353 ± 7.9
10000.0	311 ± 26.4	202 ± 6.2	215 ± 4.9	364 ± 14.8	339 ± 8.9
Trial Summary	Weakly Positive	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control ⁹					
Positive Control ¹⁰					
Positive Control ⁵			1382 ± 112.3	946 ± 31.2	655 ± 20.3
Positive Control ⁶	600 ± 36.9	551 ± 19.1			

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	246 ± 5.7
100.0	286 ± 8.7
333.0	307 ± 12.9
1000.0	296 ± 12.7
3333.0	345 ± 5.8
6666.0	
10000.0	362 ± 25.4
Trial Summary	Weakly Positive
Positive Control ⁹	
Positive Control ¹⁰	
Positive Control ⁵	728 ± 5.9
Positive Control ⁶	

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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	212 ± 10.9	242 ± 5.8	335 ± 20.1	336 ± 21.3	313 ± 15.5
100.0	273 ± 7.6	240 ± 12.5	284 ± 17.8	366 ± 9.0	333 ± 33.6
333.0	248 ± 3.8	236 ± 6.4	332 ± 15.6	396 ± 11.9	325 ± 26.7
1000.0	236 ± 1.5	221 ± 10.7	316 ± 11.2	394 ± 21.4	331 ± 4.3
3333.0	190 ± 5.3	216 ± 1.2	326 ± 28.2	355 ± 18.3	297 ± 8.2
10000.0	139 ± 9.6	135 ± 28.2	209 ± 20.9	323 ± 15.4	211 ± 21.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					790 ± 2.1
Positive Control ⁵			872 ± 7.1	575 ± 19.7	
Positive Control ¹²	660 ± 10.7	565 ± 6.4			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	263 ± 13.9
100.0	299 ± 12.9
333.0	289 ± 12.6
1000.0	344 ± 18.0
3333.0	304 ± 9.6
10000.0	250 ± 9.6
Trial Summary	Negative
Positive Control ¹¹	647 ± 0.9
Positive Control ⁵	
Positive Control ¹²	

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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: 0.5 ug/Plate Methyl Methane Sulfonate

11: 2.5 ug/Plate 2-Aminoanthracene

12: 250.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****