

Experiment Number: **A41441**

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

G06: Ames Summary Data

Test Compound: **2',3'-Didehydro-3'-deoxythymidine**

CAS Number: **3056-17-5**

Date Report Requested: **09/16/2018**

Time Report Requested: **22:04:11**

NTP Study Number:

A41441

Study Result:

Negative

Experiment Number: A41441

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CAS Number: 3056-17-5

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Strain: TA100				
Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	153 ± 13.2	89 ± 0.9	186 ± 8.4	106 ± 8.8
100.0	179 ± 4.3	103 ± 3.8	148 ± 22.9	111 ± 8.6
333.0	179 ± 7.1	92 ± 2.3	208 ± 4.0	92 ± 3.7
1000.0	172 ± 9.8	90 ± 5.1	212 ± 2.8	95 ± 2.0
3333.0	168 ± 5.8	97 ± 5.7	182 ± 11.0	99 ± 7.0
10000.0	143 ± 9.9	373 ± 274.0	191 ± 6.0	90 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²				1723 ± 43.9
Positive Control ³		1563 ± 3.5	954 ± 6.5	
Positive Control ⁴	943 ± 20.4			

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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	13 ± 1.0	12 ± 2.6	12 ± 2.0	13 ± 1.5	11 ± 1.8
100.0	14 ± 1.0	13 ± 2.2	13 ± 0.6	15 ± 1.2	12 ± 2.0
333.0	19 ± 3.8	15 ± 1.3	12 ± 2.0	15 ± 0.3	8 ± 0.7
1000.0	11 ± 2.3	14 ± 2.9	11 ± 1.2	16 ± 0.6	13 ± 1.5
3333.0	12 ± 1.8	9 ± 1.3	15 ± 0.6	15 ± 3.0	10 ± 1.0
10000.0	10 ± 1.5	13 ± 2.0	9 ± 1.3	17 ± 0.6	12 ± 2.4
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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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.0
100.0	20 ± 2.3
333.0	14 ± 2.9
1000.0	14 ± 1.2
3333.0	14 ± 0.3
10000.0	13 ± 0.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	468 ± 7.6
Positive Control ⁶	

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Test Compound: 2',3'-Didehydro-3'-deoxythymidine
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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	104 ± 3.5	137 ± 1.8	181 ± 7.1	180 ± 9.0	162 ± 10.3
100.0	139 ± 6.1	158 ± 5.9	188 ± 8.4	181 ± 1.7	164 ± 0.9
333.0	142 ± 6.4	161 ± 12.8	182 ± 8.8	174 ± 5.7	194 ± 3.8
1000.0	150 ± 1.2	172 ± 4.0	195 ± 4.0	178 ± 1.2	179 ± 4.4
3333.0	144 ± 7.5	169 ± 8.8	196 ± 13.0	172 ± 11.1	155 ± 8.2
10000.0	132 ± 9.8	165 ± 7.8	186 ± 2.2	177 ± 2.6	166 ± 11.0
Trial Summary	Equivocal	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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CAS Number: 3056-17-5

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	164 ± 6.9
100.0	169 ± 7.2
333.0	188 ± 7.8
1000.0	183 ± 10.0
3333.0	179 ± 9.1
10000.0	182 ± 3.8
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	16 ± 2.0	20 ± 2.5	20 ± 2.6	22 ± 2.2	19 ± 0.9
100.0	16 ± 3.8	19 ± 1.9	17 ± 0.9	18 ± 0.3	21 ± 3.7
333.0	17 ± 1.2	16 ± 0.7	20 ± 3.8	21 ± 0.3	16 ± 1.2
1000.0	11 ± 1.5	12 ± 0.3	17 ± 1.2	14 ± 2.0	16 ± 2.0
3333.0	12 ± 1.9	14 ± 0.7	15 ± 0.9	16 ± 2.4	14 ± 0.7
10000.0	9 ± 0.9	11 ± 1.2	13 ± 1.5	14 ± 1.7	12 ± 0.0
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	27 ± 4.2
100.0	26 ± 3.5
333.0	21 ± 5.5
1000.0	11 ± 0.9
3333.0	15 ± 2.7
10000.0	15 ± 1.0
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	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	152 ± 3.1	139 ± 6.1	248 ± 2.3	270 ± 0.7	235 ± 8.3
100.0	179 ± 6.2	163 ± 13.4	226 ± 19.2	281 ± 12.2	236 ± 13.2
333.0	182 ± 4.8	148 ± 3.4	202 ± 13.3	254 ± 35.6	235 ± 23.1
1000.0	157 ± 2.9	144 ± 8.1	206 ± 8.8	300 ± 4.2	178 ± 13.2
3333.0	173 ± 10.4	145 ± 10.1	220 ± 5.7	266 ± 5.1	226 ± 14.9
10000.0	144 ± 9.0	118 ± 14.5	197 ± 10.8	244 ± 10.5	147 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	937 ± 7.1	662 ± 38.2			
Positive Control ⁵					946 ± 31.2
Positive Control ⁶			915 ± 50.0	551 ± 19.1	

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	258 ± 11.0
100.0	316 ± 14.6
333.0	333 ± 11.5
1000.0	345 ± 16.6
3333.0	316 ± 6.3
10000.0	275 ± 3.5
Trial Summary	Equivocal
Positive Control ⁹	
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	243 ± 25.4	231 ± 3.8	350 ± 19.9	404 ± 25.0	321 ± 26.1
100.0	278 ± 2.5	251 ± 6.7	340 ± 12.8	413 ± 10.8	311 ± 10.5
333.0	312 ± 5.0	225 ± 2.5	330 ± 4.4	427 ± 27.7	340 ± 3.3
1000.0	282 ± 4.5	228 ± 1.2	321 ± 10.7	464 ± 6.6	355 ± 21.4
3333.0	254 ± 10.8	204 ± 2.4	340 ± 7.6	375 ± 5.0	347 ± 34.9
10000.0	216 ± 11.0	140 ± 30.9	316 ± 33.9	318 ± 6.8	246 ± 14.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					790 ± 2.1
Positive Control ⁵			872 ± 7.1	575 ± 19.7	
Positive Control ¹¹	660 ± 10.7	565 ± 6.4			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	365 ± 10.7
100.0	393 ± 17.9
333.0	378 ± 30.8
1000.0	439 ± 3.2
3333.0	384 ± 13.0
10000.0	268 ± 8.6
Trial Summary	Negative
Positive Control ¹⁰	647 ± 0.9
Positive Control ⁵	
Positive Control ¹¹	

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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

**** END OF REPORT ****