

Experiment Number: 420717

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: 09/15/2018

Time Report Requested: 05:13:22

**NTP Study Number:**

420717

**Study Result:**

Weakly Positive

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	103 ± 2.8	147 ± 1.9	125 ± 16.7
100.0	127 ± 2.1	151 ± 5.3	111 ± 14.0
333.0	114 ± 6.3	151 ± 6.1	119 ± 7.9
1000.0	101 ± 4.4	143 ± 5.8	122 ± 4.9
3333.0	104 ± 7.1	152 ± 1.8	122 ± 3.1
10000.0	113 ± 2.6	134 ± 7.7	137 ± 9.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		437 ± 41.9	
Positive Control <sup>3</sup>			408 ± 13.7
Positive Control <sup>4</sup>	465 ± 17.2		

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**Strain: TA1535**

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.0	12 ± 1.0	11 ± 0.7
100.0	7 ± 0.9	8 ± 2.2	11 ± 1.5
333.0	8 ± 2.3	14 ± 1.2	11 ± 2.0
1000.0	9 ± 0.9	14 ± 2.0	13 ± 0.6
3333.0	8 ± 3.2	19 ± 2.7	10 ± 2.5
10000.0	8 ± 0.9	14 ± 1.2	13 ± 2.7
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			165 ± 23.5
Positive Control <sup>5</sup>		100 ± 8.5	
Positive Control <sup>4</sup>	620 ± 53.4		

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## Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 13.9	191 ± 2.8	216 ± 7.5	188 ± 11.1	142 ± 5.9
100.0	141 ± 8.2	180 ± 8.8			145 ± 14.6
333.0	166 ± 11.8	185 ± 5.1	212 ± 7.5	205 ± 6.7	145 ± 1.2
1000.0	141 ± 8.5	196 ± 6.5	224 ± 3.7	206 ± 2.7	148 ± 0.9
3333.0	159 ± 3.5	209 ± 15.3	222 ± 17.7	225 ± 14.2	155 ± 7.4
6666.0			211 ± 7.5	172 ± 8.8	
10000.0	154 ± 5.6	204 ± 5.7	214 ± 12.2	199 ± 17.2	187 ± 3.9
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control <sup>6</sup>			540 ± 31.0	523 ± 37.4	
Positive Control <sup>2</sup>					369 ± 17.0
Positive Control <sup>3</sup>		327 ± 12.0			
Positive Control <sup>7</sup>	378 ± 2.5				

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	163 ± 11.0
100.0	
333.0	154 ± 4.6
1000.0	187 ± 6.5
3333.0	179 ± 4.4
6666.0	195 ± 6.0
10000.0	205 ± 3.3
Trial Summary	Equivocal
Positive Control <sup>6</sup>	
Positive Control <sup>2</sup>	416 ± 18.8
Positive Control <sup>3</sup>	
Positive Control <sup>7</sup>	

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 1.7	25 ± 0.3	17 ± 1.5
10.0	17 ± 2.8	18 ± 0.3	20 ± 2.6
33.0	19 ± 0.9	18 ± 1.7	15 ± 1.2
100.0	14 ± 1.2	20 ± 3.3	17 ± 0.7
333.0	21 ± 3.2	18 ± 2.1	17 ± 4.7
1000.0	21 ± 4.2	11 ± 2.3	13 ± 2.2
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		86 ± 4.4	332 ± 22.7
Positive Control <sup>8</sup>	442 ± 14.4		

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## Strain: TA104

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 5% Rat S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control <sup>1</sup>	247 ± 18.7	432 ± 21.1	439 ± 25.3	367 ± 4.7	324 ± 4.1
0.01				373 ± 11.9	348 ± 3.7
0.03				394 ± 21.2	387 ± 5.8
0.1			481 ± 19.5	395 ± 6.1	395 ± 1.5
0.3			497 ± 14.1	436 ± 32.0	414 ± 5.2
1.0			540 ± 14.0	429 ± 5.0	429 ± 2.4
3.0			535 ± 10.0	436 ± 7.3	377 ± 8.8
10.0		504 ± 6.3	518 ± 13.7		
33.0		456 ± 10.0			
100.0	258 ± 6.4	408 ± 11.2			
333.0	292 ± 8.4	422 ± 8.4			
1000.0	296 ± 6.3	423 ± 1.7			
1666.0					
3333.0	263 ± 2.8				
10000.0	219 ± 15.3				
Trial Summary	Negative	Equivocal	Weakly Positive	Equivocal	Weakly Positive
Positive Control <sup>3</sup>					
Positive Control <sup>5</sup>		992 ± 26.5	856 ± 10.5	1005 ± 23.9	843 ± 11.8
Positive Control <sup>9</sup>	697 ± 64.1				

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## Strain: TA104

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control <sup>1</sup>	442 ± 17.5	311 ± 13.5	405 ± 9.8	429 ± 13.7	357 ± 7.4
0.01					
0.03					
0.1					
0.3					
1.0					
3.0					
10.0	445 ± 7.5			466 ± 8.4	382 ± 16.6
33.0	457 ± 7.5		430 ± 7.4	464 ± 12.9	342 ± 0.7
100.0	453 ± 6.6	370 ± 11.1	445 ± 13.7	423 ± 18.5	348 ± 15.5
333.0	502 ± 1.0	407 ± 7.0	485 ± 8.0	418 ± 7.8	353 ± 8.0
1000.0	476 ± 22.4	486 ± 18.2	471 ± 12.9	471 ± 19.4	356 ± 9.6
1666.0			461 ± 54.2		
3333.0		473 ± 10.1			
10000.0		374 ± 15.6			
Trial Summary	Equivocal	Weakly Positive	Equivocal	Negative	Negative
Positive Control <sup>3</sup>					770 ± 58.2
Positive Control <sup>5</sup>	991 ± 12.0	728 ± 33.0	878 ± 15.9	861 ± 34.1	
Positive Control <sup>9</sup>					



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## Strain: TA104

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	336 ± 6.5	295 ± 7.8	364 ± 8.8	360 ± 27.0
0.01				
0.03				
0.1				
0.3				
1.0				
3.0				
10.0	381 ± 15.4			385 ± 12.3
33.0	368 ± 18.8		422 ± 10.5	401 ± 18.3
100.0	339 ± 13.0	361 ± 14.6	415 ± 7.4	351 ± 21.2
333.0	323 ± 28.8	370 ± 18.6	429 ± 5.0	394 ± 12.1
1000.0	356 ± 17.7	392 ± 9.6	398 ± 31.3	388 ± 28.4
1666.0			426 ± 15.9	
3333.0		368 ± 6.7		
10000.0		301 ± 6.2		
Trial Summary	Negative	Equivocal	Equivocal	Negative
Positive Control <sup>3</sup>	803 ± 35.3	859 ± 22.0	991 ± 4.9	855 ± 23.4
Positive Control <sup>5</sup>				
Positive Control <sup>9</sup>				

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**LEGEND**

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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: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 0.5 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

9: 250.0 ug/Plate Solvent

**\*\* END OF REPORT \*\***