

Experiment Number: 258838

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2',3'-Dideoxycytidine

CAS Number: 7481-89-2

Date Report Requested: 09/11/2018

Time Report Requested: 02:47:49

**NTP Study Number:**

258838

**Study Result:**

Weakly Positive

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## G06: Ames Summary Data

Test Compound: 2',3'-Dideoxycytidine  
CAS Number: 7481-89-2

Date Report Requested: 09/11/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	108 ± 10.5	134 ± 7.0	166 ± 3.6	132 ± 3.4	155 ± 14.2
100.0	97 ± 7.2	125 ± 13.1		154 ± 10.4	
333.0	93 ± 3.3	136 ± 10.2	167 ± 4.2	140 ± 4.6	181 ± 2.4
1000.0	120 ± 2.7	143 ± 5.9	188 ± 3.4	153 ± 1.2	186 ± 9.0
1666.0		162 ± 5.3	163 ± 5.4	163 ± 11.0	157 ± 8.7
3333.0	107 ± 4.9	142 ± 3.7	166 ± 8.9	155 ± 5.8	185 ± 11.9
6666.0		137 ± 13.5	173 ± 4.5	151 ± 12.9	184 ± 12.7
10000.0	99 ± 2.4	128 ± 10.4	150 ± 13.7	147 ± 13.8	151 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		614 ± 14.8	736 ± 9.0	387 ± 24.9	602 ± 18.3
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	1335 ± 96.2				

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	128 ± 7.5	160 ± 6.7	121 ± 9.2	113 ± 11.5	144 ± 8.2
100.0	139 ± 2.4		123 ± 11.8		140 ± 6.4
333.0	148 ± 4.4	174 ± 5.0	130 ± 3.5	132 ± 8.7	116 ± 6.6
1000.0	184 ± 6.2	201 ± 6.1	157 ± 5.5	138 ± 3.6	136 ± 4.0
1666.0		203 ± 13.3	142 ± 8.6	139 ± 7.8	132 ± 11.2
3333.0	180 ± 5.0	198 ± 4.4	160 ± 10.9	121 ± 5.5	138 ± 12.5
6666.0		198 ± 5.0	0 ± 0.0 <sup>x</sup>	152 ± 19.9	0 ± 0.0 <sup>x</sup>
10000.0	185 ± 5.2	165 ± 7.0	0 ± 0.0 <sup>x</sup>	135 ± 20.8	0 ± 0.0 <sup>x</sup>
Trial Summary	Weakly Positive	Equivocal	Equivocal	Negative	Negative
Positive Control <sup>2</sup>			1267 ± 33.8	493 ± 47.9	867 ± 20.7
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>	329 ± 14.3	500 ± 9.5			
Positive Control <sup>5</sup>					

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## Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	133 ± 18.2	119 ± 7.6	120 ± 11.7	146 ± 5.0
100.0		103 ± 7.0	144 ± 9.9	
333.0	140 ± 7.8	129 ± 4.4	136 ± 5.0	148 ± 4.7
1000.0	148 ± 14.1	120 ± 19.0	144 ± 9.2	182 ± 3.6
1666.0	147 ± 10.1		125 ± 10.6	157 ± 3.7
3333.0	142 ± 10.0	142 ± 1.9	149 ± 7.1	150 ± 3.8
6666.0	146 ± 8.7		0 ± 0.0 <sup>x</sup>	141 ± 6.9
10000.0	149 ± 7.2	143 ± 11.1	0 ± 0.0 <sup>x</sup>	169 ± 4.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	403 ± 46.3			
Positive Control <sup>3</sup>		541 ± 17.1	523 ± 47.7	405 ± 32.0
Positive Control <sup>4</sup>				
Positive Control <sup>5</sup>				

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Test Compound: 2',3'-Dideoxycytidine

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## Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	8 ± 1.5	10 ± 1.2	10 ± 0.7	13 ± 1.2	12 ± 1.2
100.0	9 ± 1.0	10 ± 1.8	11 ± 1.2	11 ± 1.2	
333.0	9 ± 1.5	10 ± 0.9	10 ± 2.8	12 ± 1.5	10 ± 1.7
1000.0	7 ± 2.3	12 ± 0.3	11 ± 0.3	12 ± 2.6	16 ± 2.6
1666.0		12 ± 1.5	11 ± 1.7	17 ± 0.6	13 ± 2.4
3333.0	7 ± 0.7	16 ± 4.1	16 ± 1.5	16 ± 2.0	12 ± 1.2
6666.0		8 ± 1.2	10 ± 2.5	18 ± 0.9	10 ± 0.3
10000.0	9 ± 1.8	9 ± 2.0	18 ± 0.7	13 ± 2.7	10 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>		67 ± 7.3	42 ± 1.2		
Positive Control <sup>6</sup>				64 ± 4.0	53 ± 3.4
Positive Control <sup>5</sup>	425 ± 21.9				

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## Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 0.7	7 ± 1.5	8 ± 1.8	9 ± 2.7	11 ± 0.3
100.0	8 ± 1.2		6 ± 1.7	12 ± 2.3	
333.0	10 ± 0.3	8 ± 0.3	8 ± 0.7	12 ± 2.8	11 ± 2.3
1000.0	18 ± 2.6	5 ± 0.7	13 ± 1.2	18 ± 3.0	11 ± 2.2
1666.0	11 ± 1.5	11 ± 1.7	14 ± 1.7	12 ± 1.5	11 ± 0.9
3333.0	14 ± 2.3	14 ± 1.0	19 ± 2.4	20 ± 0.7	10 ± 1.5
6666.0	0 ± 0.0 <sup>x</sup>	12 ± 0.3	0 ± 0.0 <sup>x</sup>	0 ± 0.0 <sup>x</sup>	4 ± 1.0
10000.0	0 ± 0.0 <sup>x</sup>	18 ± 1.3	0 ± 0.0 <sup>x</sup>	0 ± 0.0 <sup>x</sup>	12 ± 1.5
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Negative
Positive Control <sup>3</sup>	108 ± 5.6	65 ± 3.5	65 ± 0.0		
Positive Control <sup>4</sup>				169 ± 6.9	137 ± 30.1
Positive Control <sup>6</sup>					
Positive Control <sup>5</sup>					

Experiment Number: 258838

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

**G06: Ames Summary Data**

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>
Vehicle Control <sup>1</sup>	7 ± 0.3
10.0	7 ± 1.5
33.0	8 ± 1.5
100.0	7 ± 1.0
333.0	8 ± 1.5
1000.0	9 ± 3.5
3333.0	8 ± 0.7
10000.0	11 ± 2.3
Trial Summary	Negative
Positive Control <sup>4</sup>	58 ± 8.7

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Test Type: Genetic Toxicology - Bacterial  
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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	176 ± 13.2	221 ± 7.5	183 ± 15.9	192 ± 3.3	214 ± 7.3
10.0					
33.0					
100.0	204 ± 5.5	223 ± 5.5	175 ± 0.7	189 ± 6.2	243 ± 14.5
333.0	184 ± 7.2	206 ± 13.0	165 ± 14.1	199 ± 13.2	258 ± 13.8
1000.0	218 ± 4.4	213 ± 6.7	197 ± 10.8	197 ± 9.0	264 ± 20.6
3333.0	228 ± 17.7	219 ± 4.7	196 ± 6.6	213 ± 12.3	290 ± 2.2
6666.0	216 ± 8.5				287 ± 8.9
10000.0	221 ± 7.8	229 ± 2.8	199 ± 15.7	207 ± 13.0	253 ± 32.0
Trial Summary	Equivocal	Negative	Negative	Negative	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			591 ± 24.7	369 ± 14.2	
Positive Control <sup>4</sup>					421 ± 20.6
Positive Control <sup>6</sup>					
Positive Control <sup>7</sup>	420 ± 9.5	680 ± 19.1			

Experiment Number: 258838

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2',3'-Dideoxycytidine

CAS Number: 7481-89-2

Date Report Requested: 09/11/2018

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## Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	205 ± 8.7	225 ± 11.8	210 ± 9.5	188 ± 0.6	183 ± 8.0
10.0		230 ± 1.5	238 ± 10.1		
33.0		259 ± 11.0	248 ± 8.0		
100.0	234 ± 12.0	273 ± 5.6	234 ± 5.3	174 ± 13.8	178 ± 2.3
333.0	238 ± 10.9	251 ± 22.2	207 ± 3.5	189 ± 8.1	183 ± 7.2
1000.0	234 ± 11.9	259 ± 15.1	212 ± 5.8	203 ± 3.0	185 ± 4.6
3333.0	255 ± 7.5	272 ± 5.2	183 ± 8.1	195 ± 3.8	199 ± 14.8
6666.0					
10000.0	247 ± 0.9	287 ± 13.0	209 ± 15.2	212 ± 18.3	186 ± 13.1
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>				756 ± 10.0	559 ± 27.7
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>	318 ± 4.5	313 ± 7.2			
Positive Control <sup>6</sup>			321 ± 4.8		
Positive Control <sup>7</sup>					

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	185 ± 9.2	181 ± 10.0
10.0		
33.0		
100.0	215 ± 1.7	166 ± 7.6
333.0	220 ± 7.0	172 ± 15.9
1000.0	207 ± 4.4	186 ± 10.3
3333.0	210 ± 8.7	186 ± 4.5
6666.0	217 ± 7.8	
10000.0	235 ± 2.0	184 ± 16.6
Trial Summary	Equivocal	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	496 ± 21.3	437 ± 24.2
Positive Control <sup>4</sup>		
Positive Control <sup>6</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>	22 ± 2.6	31 ± 4.9	22 ± 1.2
100.0	22 ± 3.2	43 ± 5.5	23 ± 2.6
333.0	17 ± 1.2	31 ± 2.7	20 ± 0.9
1000.0	23 ± 2.2	29 ± 0.9	19 ± 0.9
3333.0	23 ± 3.4	35 ± 4.7	29 ± 4.6
10000.0	20 ± 2.5	40 ± 6.0	21 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>		135 ± 2.7	525 ± 31.7
Positive Control <sup>8</sup>	719 ± 31.7		

Experiment Number: 258838

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2',3'-Dideoxycytidine

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**Strain: TA102**

<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>	216 ± 8.1	310 ± 3.2	315 ± 14.2
100.0	255 ± 15.9	315 ± 7.2	343 ± 4.9
333.0	275 ± 8.9	328 ± 6.8	357 ± 7.6
1000.0	251 ± 14.5	300 ± 2.6	356 ± 12.3
3333.0	224 ± 10.3	295 ± 6.1	352 ± 19.7
10000.0	248 ± 13.3	307 ± 5.9	378 ± 3.0
Trial Summary	Equivocal	Negative	Equivocal
Positive Control <sup>9</sup>	869 ± 21.9		
Positive Control <sup>6</sup>			573 ± 9.0
Positive Control <sup>10</sup>		443 ± 22.9	

Experiment Number: 258838

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2',3'-Dideoxycytidine  
CAS Number: 7481-89-2

Date Report Requested: 09/11/2018

Time Report Requested: 02:47:49

## Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	277 ± 18.5	231 ± 8.7	341 ± 7.2	348 ± 10.1	386 ± 14.7
33.0		272 ± 6.5		388 ± 9.0	
100.0	294 ± 3.5	304 ± 6.2	403 ± 18.0	429 ± 11.3	433 ± 12.7
333.0	314 ± 9.0	325 ± 10.9	480 ± 23.9	444 ± 9.2	460 ± 10.5
1000.0	368 ± 5.8	372 ± 7.7	529 ± 6.7	464 ± 7.0	432 ± 49.2
3333.0	437 ± 9.8	345 ± 11.8	598 ± 12.9	498 ± 7.3	523 ± 25.2
10000.0	310 ± 30.4		566 ± 17.8		399 ± 40.4
Trial Summary	Weakly Positive	Weakly Positive	Positive	Weakly Positive	Weakly Positive
Positive Control <sup>4</sup>					907 ± 37.0
Positive Control <sup>6</sup>			696 ± 23.0	816 ± 25.2	
Positive Control <sup>11</sup>	466 ± 12.3	839 ± 35.3			

Experiment Number: 258838

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

**G06: Ames Summary Data**

Test Compound: 2',3'-Dideoxycytidine

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**Strain: TA104**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	313 ± 14.7
33.0	367 ± 10.7
100.0	374 ± 16.2
333.0	376 ± 15.5
1000.0	431 ± 5.2
3333.0	472 ± 11.5
10000.0	
Trial Summary	Weakly Positive
Positive Control <sup>4</sup>	891 ± 8.8
Positive Control <sup>6</sup>	
Positive Control <sup>11</sup>	

Experiment Number: 258838

Test Type: **Genetic Toxicology - Bacterial  
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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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 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: 10.0 ug/Plate 2-Aminoanthracene

11: 250.0 ug/Plate Methyl Methane Sulfonate

x: Slight Toxicity and Precipitate

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