

Experiment Number: 153401

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

G06: Ames Summary Data

Test Compound: **2,4-Difluoroaniline**

CAS Number: **367-25-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **15:29:33**

NTP Study Number:

153401

Study Result:

Positive

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Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Difluoroaniline

CAS Number: 367-25-9

Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	107 ± 6.2	98 ± 2.6	87 ± 4.7	113 ± 6.0	82 ± 4.2
33.0	109 ± 2.6	98 ± 5.3	83 ± 3.5	100 ± 5.0	87 ± 7.7
100.0	110 ± 4.2	91 ± 9.1	87 ± 4.3	106 ± 2.2	83 ± 3.8
333.0	104 ± 1.5	95 ± 4.4	86 ± 0.9	112 ± 8.4	88 ± 2.0
1000.0	111 ± 2.7	81 ± 3.5	93 ± 6.1 ^s	114 ± 11.5	104 ± 2.1
2000.0	99 ± 7.4 ^s	84 ± 5.6 ^s	88 ± 7.0 ^s		91 ± 4.0 ^s
3333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴			2801 ± 21.3	1134 ± 12.8	1483 ± 46.7
Positive Control ⁵					
Positive Control ⁶	1350 ± 43.0	1444 ± 58.2			

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CAS Number: 367-25-9

Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	91 ± 4.2	78 ± 6.7	94 ± 3.2	85 ± 5.2	88 ± 3.9
33.0	97 ± 4.5	85 ± 7.5	102 ± 2.9	72 ± 2.3	95 ± 8.4
100.0	97 ± 7.8	83 ± 0.9	112 ± 3.2	94 ± 0.7	120 ± 3.7
333.0	115 ± 4.8	92 ± 5.8	123 ± 8.1	100 ± 5.1	156 ± 5.0
1000.0	114 ± 3.7	92 ± 2.6	158 ± 12.1	116 ± 8.7	216 ± 4.6
2000.0	120 ± 7.5 ^s	83 ± 6.7 ^s		104 ± 2.8 ^s	263 ± 6.4 ^s
3333.0			95 ± 5.5 ^s		
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control ²		1188 ± 134.5	572 ± 22.6	967 ± 35.7	
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵	460 ± 17.4				937 ± 18.9
Positive Control ⁶					

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CAS Number: **367-25-9**

Date Report Requested: **09/12/2018**

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	121 ± 6.0
33.0	150 ± 6.1
100.0	171 ± 5.2
333.0	204 ± 4.3
1000.0	289 ± 5.8
2000.0	360 ± 12.5 ^s
3333.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	413 ± 6.8
Positive Control ⁴	
Positive Control ⁵	
Positive Control ⁶	

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.3	22 ± 2.8	11 ± 1.5	16 ± 4.7	11 ± 3.8
33.0	26 ± 1.9	17 ± 0.9	12 ± 1.2	8 ± 2.3	14 ± 3.0
100.0	21 ± 4.0	20 ± 0.9	13 ± 1.2	11 ± 1.5	10 ± 0.3
333.0	21 ± 2.0	20 ± 1.0	10 ± 3.5	12 ± 2.9	13 ± 0.9
1000.0	28 ± 3.2	18 ± 1.2	14 ± 2.0	11 ± 1.0	13 ± 1.5
2000.0	20 ± 2.0 ^s	18 ± 0.7 ^s		13 ± 1.9 ^s	
3333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					60 ± 6.6
Positive Control ⁴			71 ± 8.0		
Positive Control ⁵				72 ± 0.9	
Positive Control ⁶	908 ± 32.1	928 ± 7.9			

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Test Compound: **2,4-Difluoroaniline**

CAS Number: **367-25-9**

Date Report Requested: **09/12/2018**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.9
33.0	9 ± 1.2
100.0	14 ± 4.0
333.0	12 ± 1.7
1000.0	19 ± 5.2
2000.0	22 ± 0.6 ^s
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	
Positive Control ⁵	91 ± 7.0
Positive Control ⁶	

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G06: Ames Summary Data

Test Compound: 2,4-Difluoroaniline

CAS Number: 367-25-9

Date Report Requested: 09/12/2018

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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	111 ± 4.8	89 ± 2.7	131 ± 4.5	176 ± 5.9	132 ± 1.2
33.0	103 ± 8.0	92 ± 8.1	143 ± 2.0	120 ± 5.9	118 ± 2.9
100.0	89 ± 6.4	92 ± 4.5	138 ± 2.7	114 ± 4.4	120 ± 10.2
333.0	105 ± 2.6	101 ± 13.3	140 ± 7.5	113 ± 8.1	110 ± 1.5
1000.0	101 ± 7.4	87 ± 4.6	141 ± 8.1	119 ± 3.2	128 ± 5.6
2000.0	94 ± 9.0 ^s	78 ± 4.5 ^s		118 ± 5.9 ^s	
3333.0			Toxic		93 ± 3.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					540 ± 16.6
Positive Control ³					
Positive Control ⁴			1007 ± 24.0		
Positive Control ⁵				312 ± 3.8	
Positive Control ⁷		148 ± 9.0			
Positive Control ⁸	456 ± 19.0				

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G06: Ames Summary Data

Test Compound: 2,4-Difluoroaniline

CAS Number: 367-25-9

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	107 ± 3.7	127 ± 7.2
33.0	118 ± 2.4	168 ± 3.8
100.0	111 ± 4.6	167 ± 6.3
333.0	148 ± 8.9	180 ± 8.5
1000.0	159 ± 1.5 ^s	248 ± 4.3
2000.0	192 ± 12.7 ^s	233 ± 4.5 ^s
3333.0		
Trial Summary	Weakly Positive	Weakly Positive
Positive Control ²		
Positive Control ³		318 ± 9.0
Positive Control ⁴		
Positive Control ⁵	554 ± 18.3	
Positive Control ⁷		
Positive Control ⁸		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 3.2	35 ± 1.5	51 ± 4.9	34 ± 0.7	43 ± 5.2
33.0	15 ± 3.2	29 ± 2.4	47 ± 5.2	26 ± 3.2	45 ± 1.2
100.0	15 ± 2.1	28 ± 2.9	51 ± 2.8	38 ± 1.8	51 ± 7.3
333.0	18 ± 2.3	32 ± 1.5	54 ± 7.7	32 ± 2.4	53 ± 5.6
1000.0	15 ± 1.0	34 ± 3.9	48 ± 2.9	39 ± 3.5	57 ± 4.1
2000.0	15 ± 1.2	29 ± 1.7	49 ± 3.1		53 ± 3.2 ^s
3333.0				27 ± 8.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					
Positive Control ²					
Positive Control ⁴			2151 ± 89.1	1146 ± 27.3	986 ± 12.8
Positive Control ⁵					
Positive Control ¹⁰	2096 ± 93.7	1917 ± 27.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	46 ± 3.8	45 ± 4.1	28 ± 3.8	39 ± 1.2	35 ± 4.5
33.0	46 ± 1.5	50 ± 2.2	29 ± 2.2	41 ± 1.2	44 ± 4.7
100.0	49 ± 3.8	40 ± 3.1	28 ± 2.0	44 ± 3.7	41 ± 1.5
333.0	51 ± 1.2	41 ± 2.2	38 ± 3.5	51 ± 4.2	54 ± 3.2
1000.0	55 ± 3.9	57 ± 5.4	56 ± 3.6	57 ± 7.8	77 ± 2.7
2000.0	58 ± 7.0	48 ± 2.7		66 ± 3.2 ^s	88 ± 13.1
3333.0			Toxic		
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control ⁹					
Positive Control ²		1056 ± 12.1	790 ± 26.7	721 ± 10.5	
Positive Control ⁴					
Positive Control ⁵	266 ± 16.0				764 ± 11.8
Positive Control ¹⁰					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 4.3
33.0	29 ± 2.4
100.0	32 ± 1.5
333.0	47 ± 9.1
1000.0	74 ± 4.4
2000.0	114 ± 3.8
3333.0	
Trial Summary	Positive
Positive Control ⁹	74 ± 4.1
Positive Control ²	
Positive Control ⁴	
Positive Control ⁵	
Positive Control ¹⁰	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.5 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate Sodium Azide

7: 3.5 ug/Plate 9-Aminoacridine

8: 4.0 ug/Plate 9-Aminoacridine

9: 0.4 ug/Plate 2-Aminoanthracene

10: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****