

Experiment Number: 113328

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

G06: Ames Summary Data

Test Compound: **4,4'-Oxydianiline**

CAS Number: **101-80-4**

Date Report Requested: **09/11/2018**

Time Report Requested: **20:14:01**

NTP Study Number:

113328

Study Result:

Positive

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Mutagenicity

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Test Compound: 4,4'-Oxydianiline

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Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 4.9	142 ± 16.0	137 ± 3.1	149 ± 5.9	132 ± 11.1
3.0				189 ± 17.9	
10.0				327 ± 6.7	
33.0				579 ± 12.7	
100.0	148 ± 10.3	152 ± 11.3	830 ± 23.7	1059 ± 22.8	1130 ± 17.4
333.0	158 ± 10.5	171 ± 14.7	1273 ± 85.8	1566 ± 53.9	1434 ± 19.6
1000.0	193 ± 5.5	215 ± 5.5	1560 ± 120.7		1867 ± 28.4
3333.0	190 ± 14.4 ^p	214 ± 3.9 ^p	1564 ± 131.9 ^p		1571 ± 52.0 ^p
10000.0	249 ± 3.8 ^p	220 ± 6.5 ^p	1657 ± 88.1 ^p		1611 ± 28.1 ^p
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control ²					1322 ± 81.0
Positive Control ³			1136 ± 33.2	839 ± 9.0	
Positive Control ⁴	473 ± 9.7	419 ± 12.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	158 ± 12.7
3.0	618 ± 30.2
10.0	1285 ± 52.4
33.0	2149 ± 26.6
100.0	2553 ± 14.5
333.0	2714 ± 92.0
1000.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control ²	1016 ± 52.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.5	17 ± 1.3	32 ± 3.6	21 ± 0.0
10.0				18 ± 2.8
33.0				31 ± 0.7
100.0	26 ± 2.4	17 ± 0.9	61 ± 4.0	55 ± 9.3
333.0	23 ± 2.0	17 ± 1.2	67 ± 4.3	125 ± 7.2
1000.0	26 ± 2.1	23 ± 1.5	88 ± 1.2	153 ± 15.8
3333.0	16 ± 0.7 ^P	20 ± 3.6 ^P	64 ± 7.0 ^P	
10000.0	16 ± 2.7 ^P	17 ± 3.8 ^P	42 ± 6.1 ^P	
Trial Summary	Negative	Negative	Positive	Positive
Positive Control ³			166 ± 8.1	221 ± 19.1
Positive Control ⁴	498 ± 10.8			
Positive Control ⁵		154 ± 10.9		

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Test Compound: 4,4'-Oxydianiline

CAS Number: 101-80-4

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.9	12 ± 2.2
3.0		13 ± 2.6
10.0	13 ± 2.0	14 ± 2.9
33.0	13 ± 2.1	17 ± 1.5
100.0	13 ± 1.0	23 ± 2.5
333.0	15 ± 1.2	29 ± 3.3
1000.0	11 ± 2.1	
Trial Summary	Negative	Weakly Positive
Positive Control ⁵	232 ± 5.8	421 ± 33.8

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Test Compound: 4,4'-Oxydianiline

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	148 ± 6.9	175 ± 8.2	189 ± 5.5	174 ± 6.1	185 ± 1.8
3.0					334 ± 13.0
10.0			224 ± 20.1		625 ± 43.2
33.0			268 ± 11.1		1163 ± 43.8
100.0	172 ± 5.9	412 ± 4.5	436 ± 2.6	1024 ± 121.0	1582 ± 16.7
333.0	164 ± 12.1	553 ± 37.3	584 ± 19.9	1209 ± 45.0	1718 ± 7.4
1000.0	163 ± 6.2	696 ± 78.6	699 ± 52.1	1193 ± 162.0	
3333.0	130 ± 3.8 ^P	837 ± 64.1 ^P		1403 ± 60.4 ^P	
10000.0	145 ± 6.0 ^P	501 ± 52.8 ^P		1372 ± 172.8 ^P	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				907 ± 34.0	696 ± 16.3
Positive Control ³		765 ± 29.4	647 ± 32.0		
Positive Control ⁶	502 ± 15.4				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.0	41 ± 4.5	31 ± 1.2	37 ± 3.5	44 ± 3.2
3.0					80 ± 3.5
10.0			46 ± 5.4		177 ± 7.4
33.0			71 ± 3.5		507 ± 47.0
100.0	30 ± 5.5	139 ± 9.3	133 ± 20.3	888 ± 42.0	1097 ± 70.8
333.0	25 ± 3.8	200 ± 38.9	226 ± 35.6	1312 ± 65.7	1564 ± 61.0
1000.0	34 ± 1.8	311 ± 59.8	305 ± 24.5	1510 ± 50.6	
3333.0	24 ± 3.6 ^P	515 ± 41.7 ^P		1686 ± 34.0 ^P	
10000.0	25 ± 3.3 ^P	174 ± 3.0 ^P		2040 ± 36.0 ^P	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				1093 ± 7.8	767 ± 17.8
Positive Control ³		817 ± 48.2	646 ± 16.8		
Positive Control ⁷	774 ± 37.4				

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****