

Experiment Number: 328075

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Metasystox R

CAS Number: 301-12-2

Date Report Requested: 09/12/2018

Time Report Requested: 16:16:28

NTP Study Number:

328075

Study Result:

Positive

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Metasystox R**

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CAS Number: 301-12-2

Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	136 ± 3.0	142 ± 7.4	158 ± 9.5	132 ± 1.2	137 ± 9.2
100.0	133 ± 16.6	123 ± 11.9		131 ± 11.4	
333.0	132 ± 11.1	133 ± 6.1	179 ± 7.8	133 ± 14.6	178 ± 13.4
1000.0	131 ± 8.3	156 ± 2.0	197 ± 5.8	143 ± 4.4	203 ± 11.3
3333.0	159 ± 3.2	132 ± 66.3	236 ± 12.7	168 ± 8.0	230 ± 14.7
6666.0			274 ± 5.6		259 ± 3.1
10000.0	124 ± 10.2 ^s	279 ± 2.3	315 ± 9.6	223 ± 1.3	319 ± 23.5
Trial Summary	Negative	Positive	Positive	Weakly Positive	Positive
Positive Control ²				1116 ± 27.4	1007 ± 31.3
Positive Control ³		872 ± 36.8	953 ± 15.3		
Positive Control ⁴	500 ± 4.1				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 3.3	31 ± 7.3	14 ± 2.0	12 ± 0.3	12 ± 1.2
100.0	29 ± 0.9		14 ± 0.9		11 ± 0.0
333.0	32 ± 0.3	37 ± 4.2	13 ± 0.7	15 ± 1.0	13 ± 0.9
1000.0	39 ± 3.2	42 ± 5.3	17 ± 1.3	17 ± 2.0	12 ± 0.9
1666.0		42 ± 3.4			
3333.0	49 ± 5.9	42 ± 10.0	27 ± 1.5	35 ± 4.1	23 ± 4.0
6666.0		68 ± 7.2		54 ± 1.2	
10000.0	17 ± 1.7 ^s		49 ± 4.9	76 ± 8.0	22 ± 10.8
Trial Summary	Weakly Positive	Equivocal	Positive	Positive	Positive
Positive Control ³					272 ± 7.0
Positive Control ⁴	468 ± 11.5	432 ± 6.4			
Positive Control ⁵			245 ± 15.9	294 ± 12.2	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.3
100.0	
333.0	
1000.0	16 ± 2.8
1666.0	20 ± 2.3
3333.0	23 ± 1.2
6666.0	40 ± 0.3
10000.0	36 ± 1.8
Trial Summary	Positive
Positive Control ³	259 ± 11.0
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	137 ± 20.3	192 ± 3.2	159 ± 14.5
100.0	164 ± 17.4	193 ± 7.2	150 ± 12.9
333.0	166 ± 7.5	187 ± 2.2	145 ± 21.3
1000.0	154 ± 12.1	178 ± 13.1	163 ± 3.8
3333.0	169 ± 9.6	186 ± 7.8	172 ± 10.4
10000.0	86 ± 13.0 ^s	130 ± 65.8	161 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ²			718 ± 6.9
Positive Control ³		585 ± 25.1	
Positive Control ⁶	652 ± 9.1		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 3.8	38 ± 1.5	38 ± 6.2
100.0	23 ± 2.0	38 ± 7.3	36 ± 2.2
333.0	23 ± 2.0	39 ± 7.3	39 ± 3.6
1000.0	28 ± 2.7	40 ± 2.3	36 ± 1.5
3333.0	21 ± 3.5	38 ± 6.1	43 ± 3.9
10000.0	17 ± 3.2 ^s	28 ± 2.0	34 ± 3.4
Trial Summary	Negative	Negative	Negative
Positive Control ²			825 ± 28.0
Positive Control ³		692 ± 34.3	
Positive Control ⁷	814 ± 36.0		

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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

s: Slight Toxicity

**** END OF REPORT ****