

Experiment Number: A63936

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Norbixin (cis/trans mixture)

CAS Number: 542-40-5

Date Report Requested: 09/17/2018

Time Report Requested: 09:37:24

NTP Study Number:

A63936

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹		39 ± 1.7	50 ± 4.9	41 ± 2.0
Vehicle Control ²	64 ± 6.7			
250.0	42 ± 1.9 ^P	54 ± 5.5 ^P	55 ± 7.4 ^P	58 ± 7.9 ^P
500.0	23 ± 2.3 ^P	32 ± 3.4 ^P	45 ± 7.0 ^P	73 ± 12.3 ^P
750.0	34 ± 3.0 ^P	38 ± 12.6 ^P	69 ± 2.3 ^P	57 ± 7.6 ^P
1000.0	35 ± 2.0 ^P	41 ± 1.5 ^P	77 ± 8.4 ^P	55 ± 3.8 ^P
2500.0	52 ± 2.3 ^P	33 ± 5.5 ^P	48 ± 2.7 ^P	41 ± 3.2 ^P
5000.0	32 ± 5.5 ^X	26 ± 4.0 ^X	28 ± 13.9 ^X	43 ± 1.8 ^X
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³	402 ± 16.7	614 ± 8.8		
Positive Control ⁴			1107 ± 45.5	
Positive Control ⁵				525 ± 47.2

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	18 ± 0.9	16 ± 1.7	22 ± 1.9	17 ± 2.6
250.0	26 ± 3.5 ^P	25 ± 2.4 ^P	25 ± 0.9 ^P	25 ± 3.1 ^P
500.0	48 ± 4.8 ^P	26 ± 2.3 ^P	18 ± 4.7 ^P	14 ± 2.9 ^P
750.0	57 ± 5.8 ^P	32 ± 10.7 ^P	11 ± 5.6 ^P	17 ± 6.4 ^P
1000.0	55 ± 3.7 ^P	28 ± 2.9 ^P	19 ± 0.9 ^P	25 ± 3.1 ^P
2500.0	53 ± 2.6 ^P	20 ± 0.6 ^P	14 ± 3.5 ^P	15 ± 0.9 ^P
5000.0	1 ± 0.7 ^X	9 ± 2.5 ^X	11 ± 2.1 ^X	20 ± 4.2 ^X
Trial Summary	Positive	Equivocal	Negative	Negative
Positive Control ⁴			1253 ± 266.8	657 ± 21.6
Positive Control ⁶	394 ± 14.2	465 ± 12.7		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	166 ± 21.2	196 ± 12.4	223 ± 7.9	297 ± 15.9
100.0	251 ± 12.7 ^P	341 ± 19.8 ^P	237 ± 24.7 ^P	309 ± 13.3 ^P
250.0	325 ± 31.5 ^P	409 ± 20.0 ^P	332 ± 5.7 ^P	323 ± 20.8 ^P
500.0	351 ± 1.2 ^P	533 ± 52.7 ^P	349 ± 18.4 ^P	410 ± 73.0 ^P
750.0	406 ± 8.1 ^P	345 ± 10.6 ^P	378 ± 11.5 ^P	383 ± 105.4 ^P
1000.0	513 ± 17.8 ^P	365 ± 10.5 ^P	345 ± 17.6 ^P	262 ± 3.5 ^P
2000.0	460 ± 20.8 ^X	395 ± 26.2 ^X	322 ± 51.8 ^X	285 ± 40.9 ^X
Trial Summary	Positive	Positive	Positive	Equivocal
Positive Control ⁷			731 ± 30.0	769 ± 38.9
Positive Control ⁸	543 ± 48.3	720 ± 63.5		

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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: Vehicle Control: Water

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 2.5 nmoles/L 2-Aminoanthracene

6: 5.0 ug/Plate 2-Nitrofluorene

7: 20.0 ug/Plate 2-Aminoanthracene

8: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****