NTP Study Number: 087290

Study Result: Positive

Experiment Number: **087290**

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

G06: Ames Summary Data

Test Compound: **Trifluralin**

CAS Number: **1582-09-8**

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

Time Report Requested: **06:36:31**

Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	95 ± 7.8	98 ± 4.8	82 ± 4.2	120 ± 9.2
100.0	88 ± 6.4	90 ± 4.7	151 ± 9.1	158 ± 7.7
333.0	80 ± 4.6	102 ± 12.7	158 ± 10.4	196 ± 7.8
1000.0	84 ± 5.6[p]	96 ± 8.8[p]	168 ± 6.6[p]	217 ± 9.3[p]
3333.0	86 ± 2.7[p]	81 ± 1.9[p]	185 ± 4.0[p]	209 ± 6.1[p]
10000.0	88 ± 8.3[p]	85 ± 4.5[p]	168 ± 7.2[p]	188 ± 5.6[p]
Trial Summary	Negative	Negative	Positive	Positive
Positive Control[2]		298 ± 31.4	495 ± 16.8	2236 ± 41.9
Positive Control[3]	507 ± 18.0			

Experiment Number: **087290**

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

G06: Ames Summary Data

Test Compound: **Trifluralin**

CAS Number: **1582-09-8**

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

Time Report Requested: **06:36:31**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	11 ± 2.3	12 ± 1.9	11 ± 2.4
100.0	13 ± 4.0	9 ± 1.2	6 ± 0.3
333.0	13 ± 2.5	10 ± 1.0	10 ± 2.5
1000.0	12 ± 1.7[p]	9 ± 1.5[p]	15 ± 1.2[p]
3333.0	14 ± 3.2[p]	11 ± 2.2[p]	13 ± 1.9[p]
10000.0	17 ± 4.1[p]	7 ± 1.5[p]	12 ± 1.2[p]
Trial Summary	Negative	Negative	Negative
Positive Control[3]	387 ± 9.2		
Positive Control[4]		260 ± 41.6	434 ± 27.3

Experiment Number: **087290**

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

G06: Ames Summary Data

Test Compound: **Trifluralin**

CAS Number: **1582-09-8**

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

Time Report Requested: **06:36:31**

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	5 ± 1.5	7 ± 2.0	7 ± 0.9
100.0	4 ± 0.6	6 ± 0.7	6 ± 0.9
333.0	3 ± 0.9	6 ± 1.2	5 ± 0.9
1000.0	3 ± 0.3[p]	6 ± 0.9[p]	6 ± 0.3[p]
3333.0	4 ± 0.3[p]	5 ± 1.0[p]	9 ± 1.2[p]
10000.0	4 ± 2.2[p]	4 ± 0.9[p]	7 ± 1.3[p]
Trial Summary	Negative	Negative	Negative
Positive Control[4]		164 ± 6.2	331 ± 32.9
Positive Control[5]	141 ± 26.0		

Experiment Number: **087290**

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

G06: Ames Summary Data

Test Compound: **Trifluralin**

CAS Number: **1582-09-8**

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

Time Report Requested: **06:36:31**

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	18 ± 1.5	31 ± 3.2	21 ± 4.5
100.0	28 ± 1.5	24 ± 4.3	32 ± 0.6
333.0	19 ± 3.2	30 ± 3.5	30 ± 0.9
1000.0	20 ± 1.5[p]	31 ± 0.3[p]	27 ± 2.4[p]
3333.0	18 ± 1.7[p]	26 ± 4.5[p]	26 ± 1.9[p]
10000.0	22 ± 2.4[p]	22 ± 1.2[p]	30 ± 0.9[p]
Trial Summary	Negative	Negative	Negative
Positive Control[2]		186 ± 19.0	392 ± 7.0
Positive Control[6]	925 ± 27.8		

LEGEND

Values given as Mean or Mean ± 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: 1.0 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate Sodium Azide
4: 2.5 ug/Plate 2-Aminoanthracene
5: 50.0 ug/Plate 9-Aminoacridine
6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
p: Precipitate

** END OF REPORT **