Experiment Number: **578137**

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

G06: Ames Summary Data

Test Compound: **2,5-Toluenediamine sulfate**

CAS Number: **6369-59-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **11:11:51**

NTP Study Number: 578137

Study Result: Positive

Experiment Number: **578137**

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

G06: Ames Summary Data

Test Compound: **2,5-Toluenediamine sulfate**

CAS Number: **6369-59-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **11:11:51**

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]	110 ± 4.7	125 ± 6.3	119 ± 11.7	110 ± 0.6	148 ± 4.4
33.0	139 ± 3.7				
100.0	144 ± 10.3	138 ± 8.2	164 ± 2.9	146 ± 13.1	186 ± 14.7
333.0	147 ± 5.8	129 ± 7.3	197 ± 4.1	138 ± 11.5	193 ± 8.7
666.0					236 ± 16.3
1000.0	178 ± 20.1	199 ± 13.8	249 ± 8.8	259 ± 23.7	387 ± 22.7
1666.0	80 ± 22.4[s]		252 ± 19.6		327 ± 44.1
3333.0		205 ± 9.8	195 ± 13.9	244 ± 14.6	
10000.0		104 ± 25.8		114 ± 25.1	
Trial Summary	Weakly Positive	Weakly Positive	Positive	Positive	Positive
Positive Control[2]				792 ± 22.7	778 ± 32.0
Positive Control[3]		533 ± 15.6	461 ± 58.8		
Positive Control[4]	421 ± 7.8				

Experiment Number: **578137**

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

G06: Ames Summary Data

Test Compound: **2,5-Toluenediamine sulfate**

CAS Number: **6369-59-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **11:11:51**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	20 ± 2.4	10 ± 1.2	9 ± 0.3
33.0	20 ± 2.9		
100.0	16 ± 3.0	11 ± 1.2	12 ± 1.7
333.0	15 ± 4.5	7 ± 1.0	8 ± 0.9
1000.0	9 ± 0.7	11 ± 0.3	12 ± 0.9
1666.0	4 ± 0.6[s]		
3333.0		9 ± 1.7	11 ± 1.8
10000.0		8 ± 1.2	4 ± 3.7[s]
Trial Summary	Negative	Negative	Negative
Positive Control[3]			250 ± 2.6
Positive Control[4]	326 ± 11.1		
Positive Control[5]		129 ± 13.0	

Experiment Number: **578137**

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

G06: Ames Summary Data

Test Compound: **2,5-Toluenediamine sulfate**

CAS Number: **6369-59-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **11:11:51**

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]	165 ± 8.1	175 ± 9.4	206 ± 1.7	177 ± 10.9	204 ± 0.3
33.0	179 ± 7.4				
100.0	158 ± 6.0	174 ± 7.4	229 ± 7.8	181 ± 13.7	275 ± 1.5
333.0	178 ± 12.2	199 ± 12.1	265 ± 5.0	198 ± 14.0	271 ± 3.0
666.0					328 ± 7.3
1000.0	181 ± 15.8	251 ± 8.7	355 ± 18.2	442 ± 77.8	477 ± 24.0
1666.0	72 ± 21.3[s]		411 ± 5.2		
3333.0		334 ± 2.1	344 ± 6.8	531 ± 17.9	1373 ± 134.6
10000.0		148 ± 18.5		160 ± 13.9	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[2]				472 ± 5.3	647 ± 22.1
Positive Control[3]		419 ± 5.5	435 ± 17.2		
Positive Control[6]	798 ± 44.5				

Experiment Number: **578137**

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

G06: Ames Summary Data

Test Compound: **2,5-Toluenediamine sulfate**

CAS Number: **6369-59-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **11:11:51**

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]	19 ± 1.9	25 ± 1.5	27 ± 1.5	32 ± 0.7	35 ± 3.4
33.0	25 ± 3.4				48 ± 2.3
100.0	22 ± 4.4	33 ± 5.8	38 ± 0.6	48 ± 9.2	57 ± 3.7
333.0	24 ± 5.7	44 ± 7.0	51 ± 5.2	87 ± 3.8	130 ± 7.4
666.0					195 ± 9.4
1000.0	22 ± 2.2	111 ± 11.0	98 ± 6.2	536 ± 53.7	566 ± 24.0
1666.0	12 ± 2.8[s]		260 ± 4.5		
3333.0		298 ± 51.1	225 ± 14.3	1334 ± 150.0	
10000.0		11 ± 1.8		64 ± 4.6	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[2]				570 ± 41.5	451 ± 16.8
Positive Control[3]		340 ± 14.4	248 ± 30.9		
Positive Control[7]	613 ± 18.1				

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: 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: 50.0 ug/Plate 9-Aminoacridine
7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **