Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

NTP Study Number: 707834

Study Result: Positive

Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	144 ± 4.3	121 ± 2.4	142 ± 1.5	121 ± 8.0	121 ± 0.3
100.0	139 ± 4.0	119 ± 2.7	173 ± 8.6	162 ± 10.5	175 ± 7.9
333.0	161 ± 1.8	106 ± 9.9	184 ± 7.9	187 ± 8.5	254 ± 11.5
1000.0	165 ± 9.3	118 ± 5.7	211 ± 14.1	202 ± 6.7	311 ± 5.9
3333.0	183 ± 13.1	114 ± 12.1	280 ± 11.1	248 ± 18.2	291 ± 23.5
10000.0	168 ± 10.7	131 ± 7.6	372 ± 20.8	371 ± 18.1	230 ± 11.5
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control[2]					1688 ± 55.4
Positive Control[3]			973 ± 98.2	1368 ± 108.4	
Positive Control[4]	2324 ± 35.7	1748 ± 37.4			

Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	105 ± 9.5
100.0	158 ± 8.1
333.0	191 ± 7.7
1000.0	229 ± 10.1
3333.0	219 ± 8.1
10000.0	188 ± 10.8
Trial Summary	Positive
Positive Control[2]	2845 ± 60.9
Positive Control[3]	
Positive Control[4]	

Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	34 ± 0.9	10 ± 0.9	8 ± 1.8
100.0	35 ± 4.5	9 ± 1.9	11 ± 2.0
333.0	26 ± 0.7	12 ± 2.2	13 ± 1.5
1000.0	46 ± 2.2	12 ± 1.5	12 ± 0.3
3333.0	39 ± 4.9	10 ± 0.9	12 ± 1.5
10000.0	23 ± 0.9	10 ± 2.6	9 ± 3.0
Trial Summary	Negative	Negative	Negative
Positive Control[2]			148 ± 5.7
Positive Control[3]		69 ± 3.3	
Positive Control[4]	1844 ± 46.4		

Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 0.7	6 ± 0.7	5 ± 0.6	6 ± 0.7	6 ± 1.5
100.0	5 ± 1.0	8 ± 2.2	8 ± 0.6	9 ± 0.6	13 ± 0.9
333.0	6 ± 2.3	9 ± 2.1	9 ± 4.2	14 ± 1.2	32 ± 3.2
1000.0	3 ± 0.3	11 ± 0.9	27 ± 4.7	26 ± 1.7	95 ± 6.3
3333.0	4 ± 0.6	11 ± 0.3	65 ± 7.1	48 ± 2.0	57 ± 10.6
10000.0	9 ± 2.3	13 ± 1.2	92 ± 4.9	68 ± 9.5	17 ± 4.6
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control[2]					177 ± 10.2
Positive Control[3]			75 ± 2.0	72 ± 13.2	
Positive Control[5]	564 ± 91.6	282 ± 77.9			

Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	9 ± 2.7
100.0	15 ± 1.3
333.0	31 ± 2.7
1000.0	67 ± 7.8
3333.0	29 ± 1.2
10000.0	11 ± 2.1
Trial Summary	Positive
Positive Control[2]	281 ± 12.0
Positive Control[3]	
Positive Control[5]	

Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 2.6	18 ± 2.0	21 ± 1.0	28 ± 4.0	20 ± 2.1
100.0	19 ± 0.9	16 ± 0.9	60 ± 4.6	54 ± 8.7	140 ± 3.4
333.0	15 ± 3.2	17 ± 2.7	188 ± 3.6	195 ± 7.8	457 ± 6.9
1000.0	15 ± 1.9	21 ± 1.7	703 ± 10.3	526 ± 13.1	1229 ± 51.0
3333.0	16 ± 0.6	15 ± 0.9	1748 ± 10.5	1431 ± 43.3	1062 ± 1.9
10000.0	14 ± 0.6	15 ± 1.0	1927 ± 113.9	1562 ± 56.6	393 ± 17.3
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control[2]					1471 ± 84.7
Positive Control[3]			706 ± 4.5	1133 ± 52.8	
Positive Control[6]	1812 ± 19.0	1759 ± 44.3			

Experiment Number: **707834**

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

G06: Ames Summary Data

Test Compound: **2,4-Diaminotoluene (2,4-toluene diamine)**

CAS Number: **95-80-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:09:20**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	21 ± 0.6
100.0	145 ± 5.0
333.0	442 ± 8.5
1000.0	1061 ± 56.8
3333.0	511 ± 13.1
10000.0	178 ± 10.4
Trial Summary	Positive
Positive Control[2]	2318 ± 56.8
Positive Control[3]	
Positive Control[6]	

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: 0.75 ug/Plate 2-Aminoanthracene
3: 1.5 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate Sodium Azide
5: 80.0 ug/Plate 9-Aminoacridine
6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **