Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

NTP Study Number: 483456

Study Result: Negative

Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	99 ± 4.5	92 ± 3.7	133 ± 5.4	89 ± 5.2	104 ± 10.0
100.0	105 ± 3.1	79 ± 4.8	144 ± 3.4	95 ± 8.8	125 ± 6.6
333.3	112 ± 7.2	81 ± 3.3	135 ± 14.5	102 ± 1.5	135 ± 2.3
1000.0	104 ± 9.5	81 ± 4.6	120 ± 11.2	87 ± 3.2	116 ± 3.5
3333.3	100 ± 5.1[p]	72 ± 3.5[p]	123 ± 7.3[p]	93 ± 8.4	136 ± 2.8[p]
10000.0	101 ± 13.0[p]	73 ± 3.8[p]	130 ± 7.3[p]	95 ± 1.7[p]	127 ± 3.0[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			549 ± 29.7	553 ± 16.5	1405 ± 185.3
Positive Control[3]		194 ± 10.4			
Positive Control[4]	232 ± 10.6				

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CAS Number: **102-54-5**

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

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	125 ± 34.1
100.0	85 ± 2.6
333.3	73 ± 4.9
1000.0	77 ± 8.4
3333.3	78 ± 7.8
10000.0	83 ± 4.3[p]
Trial Summary	Negative
Positive Control[2]	1571 ± 35.4
Positive Control[3]	
Positive Control[4]	

Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 1.2	12 ± 1.0	15 ± 1.3	17 ± 1.5	13 ± 0.6
100.0	10 ± 1.5	13 ± 2.3	15 ± 2.1	23 ± 3.2	14 ± 3.3
333.3	10 ± 1.5	10 ± 1.7	15 ± 2.0	16 ± 1.3	16 ± 1.8
1000.0	12 ± 2.7	12 ± 1.5	15 ± 1.8	17 ± 1.3	15 ± 1.5
3333.3	12 ± 1.8[p]	14 ± 3.4[p]	14 ± 1.3[p]	14 ± 3.2	12 ± 2.3[p]
10000.0	12 ± 2.1[p]	12 ± 2.6[p]	14 ± 2.7[p]	16 ± 1.5[p]	13 ± 1.5[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]	303 ± 18.5	99 ± 4.2			
Positive Control[5]			177 ± 15.2	130 ± 9.2	498 ± 26.1

Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	21 ± 3.0
100.0	16 ± 0.3
333.3	18 ± 0.7
1000.0	17 ± 1.8
3333.3	21 ± 2.5
10000.0	13 ± 0.6[p]
Trial Summary	Negative
Positive Control[3]	
Positive Control[5]	403 ± 35.6

Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	7 ± 1.2	5 ± 0.3	9 ± 2.4	5 ± 0.9	7 ± 0.9
100.0	5 ± 0.9	4 ± 0.7	6 ± 0.7	6 ± 0.9	7 ± 1.5
333.3	5 ± 0.7	4 ± 0.9	9 ± 1.2	5 ± 0.3	8 ± 1.9
1000.0	4 ± 1.2	6 ± 0.3	7 ± 0.3	5 ± 0.0	5 ± 0.9
3333.3	4 ± 1.5[p]	5 ± 1.3[p]	6 ± 1.5[p]	4 ± 0.7	5 ± 0.9[p]
10000.0	5 ± 0.3[p]	3 ± 0.9[p]	5 ± 0.7[p]	5 ± 0.7	5 ± 1.2[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[5]			96 ± 5.5	73 ± 5.9	245 ± 14.7
Positive Control[6]	95 ± 22.0	228 ± 12.1			

Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	5 ± 0.9
100.0	5 ± 0.9
333.3	6 ± 0.3
1000.0	4 ± 1.3
3333.3	6 ± 0.3
10000.0	3 ± 0.3[p]
Trial Summary	Negative
Positive Control[5]	240 ± 14.8
Positive Control[6]	

Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	25 ± 0.7	13 ± 2.3	26 ± 3.9	22 ± 2.5	29 ± 2.3
100.0	26 ± 0.3	17 ± 1.7	34 ± 2.4	21 ± 3.2	29 ± 1.2
333.3	16 ± 1.9	18 ± 3.0	32 ± 3.3	22 ± 3.2	27 ± 5.0
1000.0	20 ± 2.9	15 ± 1.0	29 ± 3.9	25 ± 3.2	32 ± 2.3
3333.3	17 ± 1.7[p]	14 ± 0.6[p]	27 ± 3.9[p]	21 ± 2.3	25 ± 4.5[p]
10000.0	21 ± 2.6[p]	14 ± 3.5[p]	28 ± 1.3[p]	28 ± 5.0[p]	18 ± 0.6[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			430 ± 16.9	290 ± 14.7	1210 ± 43.6
Positive Control[3]	16 ± 2.3				
Positive Control[4]		424 ± 14.2			

Experiment Number: **483456**

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

G06: Ames Summary Data

Test Compound: **Ferrocene**

CAS Number: **102-54-5**

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

Time Report Requested: **17:17:39**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	17 ± 1.2
100.0	23 ± 4.0
333.3	18 ± 0.9
1000.0	21 ± 2.0
3333.3	22 ± 1.8
10000.0	17 ± 2.0[p]
Trial Summary	Negative
Positive Control[2]	891 ± 58.4
Positive Control[3]	
Positive Control[4]	

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: 95% Ethanol
2: 1.0 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate Sodium Azide
4: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
5: 2.5 ug/Plate 2-Aminoanthracene
6: 50.0 ug/Plate 9-Aminoacridine
p: Precipitate

** END OF REPORT **