Experiment Number: **GEMT28B**

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

G06: Ames Summary Data

Test Compound: **Senna (powdered)**

CAS Number: **8013-11-4**

Date Report Requested: **09/16/2018**

Time Report Requested: **15:37:34**

NTP Study Number: GEMT28B

Study Result: Positive

Experiment Number: **GEMT28B**

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

G06: Ames Summary Data

Test Compound: **Senna (powdered)**

CAS Number: **8013-11-4**

Date Report Requested: **09/16/2018**

Time Report Requested: **15:37:34**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	110 ± 8.5	76 ± 6.4	111 ± 6.8	77 ± 8.6
125.0	108 ± 7.5	87 ± 3.5	97 ± 0.9	89 ± 2.0
250.0	104 ± 3.2[p]	84 ± 2.7	103 ± 10.1[p]	80 ± 3.4
500.0	141 ± 6.1[p]	91 ± 11.0	139 ± 2.9[p]	93 ± 3.8
1500.0	105 ± 10.7[p]	91 ± 6.4[p]	125 ± 5.9[p]	119 ± 6.1[p]
3000.0	130 ± 2.9[p]	95 ± 2.6[p]	161 ± 5.9[p]	132 ± 2.9[p]
6000.0	120 ± 10.8[p]	97 ± 3.2[p]	165 ± 2.3[p]	142 ± 5.8[p]
Trial Summary	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control[2]	858 ± 47.7	665 ± 53.7		
Positive Control[3]			1889 ± 34.3	2065 ± 90.3

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Date Report Requested: **09/16/2018**

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	21 ± 2.6	24 ± 2.0	30 ± 2.5	31 ± 4.5
125.0	22 ± 1.8	23 ± 2.1	23 ± 3.3	34 ± 0.7
250.0	22 ± 3.5[p]	25 ± 1.8	44 ± 5.8[p]	35 ± 1.9
500.0	19 ± 2.3[p]	30 ± 1.2	50 ± 3.2[p]	49 ± 5.8
1500.0	22 ± 2.6[p]	36 ± 1.8[p]	48 ± 5.4[p]	64 ± 9.5[p]
3000.0	36 ± 3.0[p]	31 ± 2.6[p]	68 ± 14.5[p]	80 ± 9.3[p]
6000.0	59 ± 6.4[p]	63 ± 14.3[p]	85 ± 7.0[p]	90 ± 5.0[p]
Trial Summary	Positive	Weakly Positive	Positive	Positive
Positive Control[4]			1456 ± 19.6	1990 ± 167.6
Positive Control[5]	735 ± 10.8	611 ± 20.6		

Experiment Number: **GEMT28B**

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

G06: Ames Summary Data

Test Compound: **Senna (powdered)**

CAS Number: **8013-11-4**

Date Report Requested: **09/16/2018**

Time Report Requested: **15:37:34**

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	182 ± 6.5	192 ± 17.8	243 ± 15.6	231 ± 2.6
125.0	175 ± 8.7	188 ± 12.2	206 ± 9.6	232 ± 13.6
250.0	161 ± 5.6	172 ± 5.5	222 ± 6.8	204 ± 7.9
500.0	161 ± 9.9	140 ± 8.5	223 ± 4.3[p]	225 ± 18.5
1500.0	158 ± 11.1[p]	133 ± 14.2[p]	165 ± 6.9[p]	185 ± 44.0[p]
3000.0	155 ± 8.9[p]	136 ± 3.8[p]	177 ± 7.8[p]	158 ± 16.5[p]
6000.0	156 ± 9.8[p]	172 ± 20.4[p]	170 ± 9.0[p]	204 ± 5.5[p]
Trial Summary	Negative	Negative	Negative	Negative
Positive Control[6]			1552 ± 31.2	1740 ± 17.0
Positive Control[7]	1302 ± 38.1	1066 ± 46.7		

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 Sodium Azide
3: 2.5 ug/Plate 2-Aminoanthracene
4: 2.0 ug/Plate 2-Aminoanthracene
5: 3.0 ug/Plate 2-Nitrofluorene
6: 20.0 ug/Plate 2-Aminoanthracene
7: 100.0 ug/Plate Methyl Methane Sulfonate
p: Precipitate

** END OF REPORT **