Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

NTP Study Number: 934521

Study Result: Negative

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	168 ± 1.2	131 ± 4.3	159 ± 4.4	178 ± 1.9	174 ± 4.1
10.0	151 ± 7.7	143 ± 8.7	178 ± 1.5	171 ± 17.1	175 ± 9.6
33.0	142 ± 4.0	136 ± 7.8	195 ± 11.3	189 ± 5.0	180 ± 8.2
100.0	157 ± 8.0	138 ± 10.1	184 ± 3.1	173 ± 11.2	184 ± 5.5
333.0	156 ± 10.1	161 ± 24.4	203 ± 12.0	157 ± 26.3	198 ± 8.2
1000.0	156 ± 6.8	156 ± 0.6	162 ± 12.4	149 ± 12.5	209 ± 13.3
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control[2]			474 ± 26.4	456 ± 58.0	706 ± 13.2
Positive Control[3]	360 ± 19.0	400 ± 15.2			

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	141 ± 16.6
10.0	150 ± 14.1
33.0	158 ± 15.1
100.0	170 ± 7.6
333.0	194 ± 4.3
1000.0	180 ± 14.5
Trial Summary	Equivocal
Positive Control[2]	735 ± 97.7
Positive Control[3]	

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	8 ± 0.9	8 ± 0.9	10 ± 1.2	14 ± 1.0	11 ± 2.6
10.0	9 ± 1.5	11 ± 1.0	10 ± 1.5	13 ± 2.0	12 ± 2.9
33.0	9 ± 0.9	9 ± 0.9	5 ± 1.0	9 ± 3.5	11 ± 2.0
100.0	6 ± 0.3	12 ± 3.2	7 ± 1.2	11 ± 2.3	11 ± 3.0
333.0	5 ± 0.6	11 ± 3.2	6 ± 2.0	9 ± 2.5	9 ± 2.6
1000.0	3 ± 0.3	12 ± 0.6	4 ± 1.5	10 ± 3.3	4 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			64 ± 25.7	153 ± 11.2	80 ± 8.0
Positive Control[3]	356 ± 59.3	180 ± 20.1			

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	13 ± 1.8
10.0	13 ± 1.7
33.0	11 ± 0.9
100.0	14 ± 2.0
333.0	14 ± 2.6
1000.0	10 ± 3.0
Trial Summary	Negative
Positive Control[2]	136 ± 10.2
Positive Control[3]	

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	9 ± 1.9	7 ± 1.2	9 ± 0.9	6 ± 0.9	12 ± 1.3
10.0	9 ± 0.9	7 ± 1.5	11 ± 0.6	10 ± 1.0	14 ± 0.9
33.0	9 ± 1.5	9 ± 0.3	11 ± 0.9	10 ± 2.4	13 ± 0.9
100.0	9 ± 1.7	8 ± 0.6	13 ± 2.0	11 ± 2.5	16 ± 3.0
333.0	8 ± 0.6	8 ± 1.5	11 ± 2.7	12 ± 0.7	18 ± 0.3
1000.0	12 ± 1.2	8 ± 3.0	9 ± 0.7	9 ± 0.6	15 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			45 ± 6.4	29 ± 4.7	75 ± 7.3
Positive Control[4]	256 ± 37.5	108 ± 29.8			

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	7 ± 1.2
10.0	10 ± 2.3
33.0	15 ± 1.5
100.0	11 ± 2.6
333.0	11 ± 3.5
1000.0	13 ± 1.9
Trial Summary	Negative
Positive Control[2]	63 ± 18.9
Positive Control[4]	

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	15 ± 1.2	15 ± 2.1	23 ± 3.0	16 ± 3.6	26 ± 2.3
10.0	20 ± 2.6	16 ± 2.7	25 ± 0.9	24 ± 0.7	27 ± 2.5
33.0	18 ± 2.0	14 ± 2.3	20 ± 1.5	18 ± 2.3	24 ± 2.1
100.0	19 ± 0.6	17 ± 1.2	28 ± 1.0	23 ± 3.2	27 ± 1.3
333.0	15 ± 1.5	14 ± 2.1	22 ± 4.2	20 ± 2.7	24 ± 3.6
1000.0	12 ± 0.7	8 ± 1.9	22 ± 5.5	17 ± 2.9	12 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			290 ± 14.5	387 ± 85.5	419 ± 16.9
Positive Control[5]	120 ± 6.7	82 ± 10.8			

Experiment Number: **934521**

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

G06: Ames Summary Data

Test Compound: **beta-Methylumbelliferone**

CAS Number: **90-33-5**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:56:39**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	19 ± 2.0
10.0	24 ± 2.2
33.0	22 ± 1.5
100.0	23 ± 3.0
333.0	21 ± 2.1
1000.0	17 ± 2.9
Trial Summary	Negative
Positive Control[2]	346 ± 8.4
Positive Control[5]	

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: 3.3 ug/Plate Sodium Azide
4: 33.0 ug/Plate 9-Aminoacridine
5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **