NTP Study Number: 934591

Study Result: Positive

Experiment Number: **934591**

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

G06: Ames Summary Data

Test Compound: **Benzo(f)-quinoline**

CAS Number: **85-02-9**

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

Time Report Requested: **12:00:26**

Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	93 ± 3.5	94 ± 2.4	77 ± 2.7	89 ± 3.8	134 ± 2.5
3.3	84 ± 0.9	99 ± 2.7	82 ± 6.7	95 ± 4.9	126 ± 2.0
10.0	83 ± 3.4	115 ± 1.5	125 ± 14.3	113 ± 2.5	149 ± 5.7
33.0	92 ± 4.2	143 ± 7.8	204 ± 7.1	199 ± 16.3	264 ± 3.0
100.0	89 ± 10.1	134 ± 4.7	146 ± 8.0	164 ± 0.9	442 ± 40.4[s]
200.0	Toxic	117 ± 8.1	120 ± 7.9[s]	133 ± 1.5[s]	378 ± 13.1[s]
Trial Summary	Negative	Weakly Positive	Positive	Positive	Positive
Positive Control[2]					
Positive Control[3]		3105 ± 105.6	1591 ± 11.0	1954 ± 45.5	
Positive Control[4]					1011 ± 23.0
Positive Control[5]	1066 ± 39.6				

Experiment Number: **934591**

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

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Test Compound: **Benzo(f)-quinoline**

CAS Number: **85-02-9**

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

Time Report Requested: **12:00:26**

Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	98 ± 5.5	86 ± 5.9	95 ± 3.8	92 ± 0.9
3.3	89 ± 1.8	84 ± 1.5	82 ± 5.9	103 ± 6.3
10.0	98 ± 7.5	88 ± 2.0	97 ± 9.6	118 ± 9.1
33.0	95 ± 9.8	111 ± 7.2	134 ± 4.3	147 ± 8.9
100.0	102 ± 9.2	120 ± 8.4	137 ± 4.2	171 ± 15.0
200.0	103 ± 5.8	121 ± 2.2	132 ± 8.0	213 ± 5.2
Trial Summary	Negative	Equivocal	Equivocal	Positive
Positive Control[2]	2406 ± 100.7	1137 ± 63.6	1079 ± 35.0	
Positive Control[3]				
Positive Control[4]				1412 ± 25.5
Positive Control[5]				

Experiment Number: **934591**

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

G06: Ames Summary Data

Test Compound: **Benzo(f)-quinoline**

CAS Number: **85-02-9**

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

Time Report Requested: **12:00:26**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	24 ± 1.5	12 ± 1.3	13 ± 3.0
3.3	18 ± 4.6	10 ± 0.9	10 ± 1.2
10.0	23 ± 2.9	12 ± 0.6	12 ± 1.8
33.0	18 ± 2.6	16 ± 3.7	14 ± 0.6
100.0	21 ± 3.3	12 ± 1.5[s]	15 ± 1.5
200.0	Toxic	8 ± 1.7[s]	14 ± 0.0[s]
Trial Summary	Negative	Negative	Negative
Positive Control[2]			108 ± 3.0
Positive Control[3]		128 ± 3.0	
Positive Control[5]	897 ± 20.9		

Experiment Number: **934591**

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

G06: Ames Summary Data

Test Compound: **Benzo(f)-quinoline**

CAS Number: **85-02-9**

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

Time Report Requested: **12:00:26**

Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	107 ± 5.5	91 ± 2.8	147 ± 8.1	130 ± 4.9	195 ± 4.3
3.3	97 ± 9.5	113 ± 1.5	142 ± 0.7	137 ± 16.7	174 ± 8.8
10.0	94 ± 4.2	147 ± 2.6	175 ± 5.5	164 ± 1.5	192 ± 8.4
33.0	87 ± 1.8	168 ± 5.2	313 ± 8.3	343 ± 26.0	374 ± 19.9
100.0	77 ± 2.1	90 ± 26.4	250 ± 5.9	169 ± 10.0[s]	497 ± 5.8[s]
200.0	31 ± 10.0[s]	56 ± 4.3[s]	163 ± 10.5[s]	35 ± 2.6[s]	421 ± 29.7[s]
Trial Summary	Negative	Weakly Positive	Weakly Positive	Positive	Positive
Positive Control[2]					
Positive Control[3]		2041 ± 33.0	1345 ± 41.9	1079 ± 25.6	
Positive Control[4]					547 ± 8.8
Positive Control[6]	802 ± 13.2				

Experiment Number: **934591**

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

G06: Ames Summary Data

Test Compound: **Benzo(f)-quinoline**

CAS Number: **85-02-9**

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

Time Report Requested: **12:00:26**

Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	110 ± 2.3	145 ± 10.2	130 ± 11.9	139 ± 12.3
3.3	115 ± 5.4	158 ± 4.0	131 ± 13.3	158 ± 4.7
10.0	126 ± 5.4	161 ± 1.7	156 ± 6.4	171 ± 3.0
33.0	123 ± 5.5	224 ± 11.4	190 ± 5.2	240 ± 2.4
100.0	129 ± 7.0	206 ± 1.5	188 ± 5.7	290 ± 5.4
200.0	106 ± 7.5[s]	176 ± 6.7[s]	127 ± 21.2[s]	279 ± 35.4
Trial Summary	Negative	Equivocal	Equivocal	Positive
Positive Control[2]	1241 ± 39.2	825 ± 46.6	558 ± 11.8	
Positive Control[3]				
Positive Control[4]				880 ± 52.7
Positive Control[6]				

Experiment Number: **934591**

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

G06: Ames Summary Data

Test Compound: **Benzo(f)-quinoline**

CAS Number: **85-02-9**

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

Time Report Requested: **12:00:26**

Strain: TA98

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	19 ± 4.8	38 ± 3.5	35 ± 3.5	32 ± 2.6	32 ± 4.7
3.3	17 ± 0.3	41 ± 4.6	23 ± 1.5	39 ± 4.3	23 ± 2.2
10.0	14 ± 4.3	38 ± 1.0	41 ± 2.8	40 ± 3.8	36 ± 2.5
33.0	15 ± 0.7	39 ± 2.9	57 ± 3.2	71 ± 5.4	69 ± 5.8
100.0	18 ± 0.7	30 ± 5.2[s]	38 ± 3.2	43 ± 6.4[s]	96 ± 4.8[s]
200.0	Toxic	32 ± 4.1[s]	28 ± 2.9	29 ± 2.6[s]	75 ± 3.8[s]
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control[2]					
Positive Control[3]		2924 ± 88.6	1435 ± 37.8	1469 ± 49.4	
Positive Control[4]					827 ± 25.5
Positive Control[7]	1785 ± 54.1				

Experiment Number: **934591**

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

G06: Ames Summary Data

Test Compound: **Benzo(f)-quinoline**

CAS Number: **85-02-9**

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

Time Report Requested: **12:00:26**

Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	40 ± 2.3	31 ± 0.9	36 ± 6.0	33 ± 2.5
3.3	32 ± 5.0	30 ± 1.7	35 ± 2.2	37 ± 2.9
10.0	35 ± 0.6	38 ± 1.8	34 ± 3.5	29 ± 3.7
33.0	25 ± 3.0	45 ± 2.1	47 ± 2.6	38 ± 2.7
100.0	26 ± 5.0	39 ± 7.2	37 ± 1.2	56 ± 3.5
200.0	22 ± 4.2[s]	30 ± 5.5	29 ± 3.5	57 ± 6.4
Trial Summary	Negative	Negative	Negative	Equivocal
Positive Control[2]	2465 ± 120.0	1047 ± 31.0	1125 ± 33.5	
Positive Control[3]				
Positive Control[4]				1493 ± 15.2
Positive Control[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: 0.75 ug/Plate 2-Aminoanthracene
3: 1.5 ug/Plate 2-Aminoanthracene
4: 2.0 ug/Plate 2-Aminoanthracene
5: 2.5 ug/Plate Sodium Azide
6: 4.0 ug/Plate 9-Aminoacridine
7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **