NTP Study Number: A08436

Study Result: Equivocal

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	182 ± 4.9	163 ± 7.4	208 ± 5.4	202 ± 9.1	169 ± 3.5
100.0	190 ± 5.8	162 ± 9.2	184 ± 5.5	205 ± 11.6	180 ± 9.2
333.0	179 ± 10.0	168 ± 1.9	183 ± 10.1	198 ± 4.8	206 ± 11.0
1000.0	200 ± 6.4	183 ± 5.2	198 ± 14.3	195 ± 1.8	211 ± 3.5
3333.0	230 ± 6.2	190 ± 2.3	217 ± 9.7	227 ± 4.5	229 ± 13.3
6667.0					
10000.0	93 ± 4.4[s]	77 ± 5.5[s]	84 ± 11.3[s]	146 ± 7.1	87 ± 7.8[s]
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control[2]					623 ± 3.5
Positive Control[3]	441 ± 10.4	461 ± 4.9			
Positive Control[4]			480 ± 16.8		
Positive Control[5]					
Positive Control[6]				781 ± 16.5	

Experiment Number: **A08436**

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	123 ± 3.7	214 ± 9.1	201 ± 19.6
100.0	119 ± 13.5	226 ± 6.8	201 ± 4.9
333.0	124 ± 9.4	186 ± 9.9	198 ± 8.8
1000.0	130 ± 10.7	200 ± 8.1	179 ± 9.3
3333.0	142 ± 5.1	201 ± 16.5	186 ± 2.9
6667.0		208 ± 23.3	
10000.0	99 ± 15.4[s]		152 ± 5.0
Trial Summary	Negative	Negative	Negative
Positive Control[2]	373 ± 29.0	1485 ± 116.2	
Positive Control[3]			
Positive Control[4]			
Positive Control[5]			725 ± 30.6
Positive Control[6]			

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	12 ± 1.3	10 ± 1.7	8 ± 1.0	18 ± 1.5	14 ± 3.5
100.0	12 ± 2.3	7 ± 0.3	8 ± 2.6	15 ± 1.3	13 ± 2.3
333.0	11 ± 2.1	9 ± 1.7	10 ± 0.7	13 ± 1.2	9 ± 0.6
1000.0	12 ± 2.3	7 ± 0.0	13 ± 1.2	18 ± 1.9	12 ± 0.6
3333.0	13 ± 0.3	8 ± 0.7	11 ± 2.2	12 ± 0.3	12 ± 2.1
10000.0	7 ± 1.3[s]	5 ± 1.5[s]	6 ± 1.2[s]	8 ± 0.7[s]	4 ± 0.3[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					55 ± 2.9
Positive Control[3]	349 ± 13.7	290 ± 7.4			
Positive Control[5]					
Positive Control[6]			200 ± 1.2	237 ± 20.3	

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	14 ± 0.6
100.0	11 ± 0.6
333.0	15 ± 0.3
1000.0	13 ± 1.9
3333.0	14 ± 1.5
10000.0	6 ± 1.2[s]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[5]	149 ± 4.4
Positive Control[6]	

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	6 ± 0.3
100.0	7 ± 1.2
333.0	7 ± 0.3
1000.0	7 ± 0.6
3333.0	6 ± 0.3
10000.0	5 ± 0.0
Trial Summary	Negative
Positive Control[6]	277 ± 49.5

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control[1]	213 ± 5.0	120 ± 6.2	230 ± 34.5	133 ± 5.9	206 ± 12.7
100.0	219 ± 13.6	118 ± 11.6	278 ± 28.2	133 ± 3.5	196 ± 3.2
333.0	181 ± 1.2	112 ± 4.7	233 ± 18.5	232 ± 12.6	186 ± 6.4
667.0					
1000.0	196 ± 5.2	132 ± 7.5	241 ± 13.8	232 ± 19.0	187 ± 7.0
2000.0					191 ± 5.0
3333.0	203 ± 4.2	124 ± 3.1	221 ± 10.7	171 ± 8.5	191 ± 4.2
10000.0	106 ± 3.4[s]	97 ± 3.5[s]	162 ± 9.4	101 ± 7.3[s]	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control[4]					
Positive Control[6]			701 ± 30.1	968 ± 48.8	721 ± 90.8
Positive Control[7]	774 ± 46.8	514 ± 30.5			

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	200 ± 23.7	208 ± 11.6	121 ± 9.0	218 ± 9.5
100.0	257 ± 16.7			214 ± 10.4
333.0	230 ± 15.8	246 ± 6.8	140 ± 16.9	149 ± 8.7
667.0		228 ± 13.9	145 ± 7.9	
1000.0	303 ± 1.8	262 ± 14.5	135 ± 12.9	153 ± 9.2
2000.0		259 ± 21.1	141 ± 0.9	
3333.0	219 ± 8.3	243 ± 13.8	136 ± 13.4	170 ± 5.7
10000.0	150 ± 6.7			110 ± 10.7[s]
Trial Summary	Equivocal	Equivocal	Negative	Negative
Positive Control[4]	655 ± 27.2	610 ± 63.3	464 ± 29.2	
Positive Control[6]				807 ± 30.3
Positive Control[7]				

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 0.6	14 ± 1.9	28 ± 1.5	25 ± 1.2	25 ± 2.0
100.0	17 ± 1.5	18 ± 0.9	26 ± 4.9	19 ± 0.9	26 ± 1.5
333.0	14 ± 2.4	13 ± 1.7	30 ± 1.5	27 ± 1.5	21 ± 1.5
1000.0	15 ± 0.9	18 ± 2.5	22 ± 3.0	20 ± 2.1	26 ± 0.9
3333.0	16 ± 4.4	14 ± 1.9	28 ± 1.5	24 ± 4.0	28 ± 0.6
10000.0	9 ± 1.2	8 ± 1.2[s]	20 ± 1.3	10 ± 2.1	22 ± 1.7
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control[2]			298 ± 34.2		579 ± 6.7
Positive Control[8]	96 ± 4.4	133 ± 6.4			
Positive Control[5]				186 ± 9.3	

Experiment Number: **A08436**

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

G06: Ames Summary Data

Test Compound: **Picolinic acid**

CAS Number: **98-98-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **16:32:09**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	20 ± 2.3
100.0	18 ± 2.8
333.0	19 ± 1.5
1000.0	19 ± 5.0
3333.0	23 ± 2.6
10000.0	13 ± 2.3
Trial Summary	Negative
Positive Control[2]	
Positive Control[8]	
Positive Control[5]	430 ± 25.7

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: Water
2: 0.4 ug/Plate 2-Aminoanthracene
3: 0.5 ug/Plate Sodium Azide
4: 0.75 ug/Plate 2-Aminoanthracene
5: 1.0 ug/Plate 2-Aminoanthracene
6: 2.0 ug/Plate 2-Aminoanthracene
7: 24.0 ug/Plate 9-Aminoacridine
8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **