NTP Study Number:	A15624
Study Result:	Negative

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	116 ± 5.8	114 ± 4.6	120 ± 2.3	130 ± 7.9	110 ± 8.8
100.0	100 ± 1.3		132 ± 2.8	122 ± 3.2	116 ± 4.4
333.0	96 ± 5.2		126 ± 5.2	131 ± 0.3	116 ± 1.0
1000.0	103 ± 4.5	114 ± 7.5	121 ± 4.6	137 ± 4.7	115 ± 2.9
1666.0		121 ± 5.2			
3333.0	101 ± 6.0[p]	110 ± 4.6	130 ± 8.1[p]	129 ± 18.1[p]	106 ± 5.7[p]
6666.0		112 ± 3.9[p]			
10000.0	125 ± 3.2[p]	103 ± 3.2[p]	126 ± 10.4[p]	129 ± 7.8[p]	130 ± 4.5[p]
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control[2]					
Positive Control[3]				555 ± 18.8	
Positive Control[4]	867 ± 23.0	890 ± 12.1	834 ± 31.2		
Positive Control[5]					576 ± 9.6

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	140 ± 6.6	122 ± 4.9	96 ± 5.5	128 ± 6.3
100.0		140 ± 8.2	117 ± 7.1	
333.0		122 ± 7.6	105 ± 7.3	
1000.0	135 ± 9.0	142 ± 16.3	111 ± 4.7	119 ± 4.2
1666.0	134 ± 4.7			117 ± 3.0
3333.0	146 ± 5.8	127 ± 6.4[p]	105 ± 2.0[p]	119 ± 2.3
6666.0	135 ± 10.7[p]			104 ± 6.2[p]
10000.0	137 ± 1.7[p]	133 ± 19.2[p]	132 ± 1.7[p]	109 ± 5.2[p]
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control[2]		629 ± 22.5		
Positive Control[3]			644 ± 25.3	633 ± 29.5
Positive Control[4]				
Positive Control[5]	581 ± 18.0			

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	9 ± 1.5	13 ± 3.1	11 ± 2.2	13 ± 1.8	14 ± 2.0
100.0		10 ± 2.4	12 ± 1.5	9 ± 0.7	
333.0		7 ± 1.5	12 ± 1.2	10 ± 2.4	
1000.0	8 ± 1.2	6 ± 1.2	14 ± 1.9	10 ± 2.4	10 ± 2.8
1666.0	12 ± 3.5				11 ± 0.9
3333.0	8 ± 0.7	11 ± 0.6[p]	10 ± 1.5[p]	15 ± 2.8[p]	9 ± 0.3
6666.0	6 ± 1.0[p]				9 ± 1.3[p]
10000.0	7 ± 1.0[p]	15 ± 1.5[p]	13 ± 3.8[p]	8 ± 0.3[p]	10 ± 1.7[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]					
Positive Control[6]			1017 ± 42.0		
Positive Control[5]				79 ± 2.6	
Positive Control[4]	909 ± 32.6	784 ± 25.9			
Positive Control[7]					105 ± 4.1

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	13 ± 1.2	14 ± 1.0	11 ± 0.9	8 ± 1.2
100.0	11 ± 1.8	12 ± 1.5		5 ± 0.6
333.0	13 ± 4.3	11 ± 1.0		8 ± 1.8
1000.0	10 ± 1.5	13 ± 0.7	8 ± 1.8	10 ± 3.5
1666.0			9 ± 0.9	
3333.0	13 ± 1.7[p]	10 ± 1.2[p]	8 ± 1.2	10 ± 0.3[p]
6666.0			7 ± 1.0[p]	
10000.0	11 ± 2.2[p]	9 ± 1.2[p]	7 ± 1.9[p]	9 ± 0.6[p]
Trial Summary	Negative	Negative	Negative	Negative
Positive Control[3]		81 ± 5.8		
Positive Control[6]				
Positive Control[5]			99 ± 7.9	86 ± 8.1
Positive Control[4]				
Positive Control[7]	80 ± 3.8			

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	144 ± 9.5	135 ± 4.7	159 ± 11.2	206 ± 10.9	133 ± 1.9
100.0	156 ± 8.4	137 ± 9.0	156 ± 4.9	206 ± 14.1	141 ± 9.4
333.0	163 ± 5.2	137 ± 3.2	154 ± 10.8	205 ± 14.3	153 ± 16.4
1000.0	164 ± 6.7	151 ± 8.4	138 ± 4.3	197 ± 19.7	132 ± 12.9
3333.0	159 ± 8.1[p]	134 ± 5.4[p]	152 ± 12.2[p]	192 ± 10.8[p]	141 ± 14.7[p]
10000.0	147 ± 5.2[p]	125 ± 9.0[p]	152 ± 7.1[p]	202 ± 11.0[p]	149 ± 6.1[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					494 ± 41.0
Positive Control[3]			522 ± 6.2		
Positive Control[5]				521 ± 12.0	
Positive Control[8]	625 ± 14.4	490 ± 22.5			

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	174 ± 4.1
100.0	181 ± 5.2
333.0	179 ± 6.4
1000.0	174 ± 3.4
3333.0	188 ± 7.1[p]
10000.0	174 ± 8.5[p]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	582 ± 19.8
Positive Control[5]	
Positive Control[8]	

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	26 ± 2.6	13 ± 2.1	22 ± 1.8	35 ± 2.4	20 ± 4.7
100.0	30 ± 3.2	14 ± 2.4	24 ± 2.9	33 ± 0.3	21 ± 2.0
333.0	29 ± 4.9	15 ± 3.2	20 ± 2.9	40 ± 2.1	20 ± 5.5
1000.0	33 ± 6.3	20 ± 3.2	18 ± 2.6	33 ± 3.5	29 ± 2.7
3333.0	26 ± 3.2[p]	18 ± 2.4[p]	21 ± 2.8[p]	40 ± 4.3[p]	21 ± 3.6[p]
10000.0	27 ± 5.0[p]	19 ± 3.9[p]	19 ± 5.3[p]	36 ± 3.3[p]	22 ± 2.1[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					439 ± 28.4
Positive Control[3]			243 ± 23.5		
Positive Control[9]	346 ± 21.3	515 ± 33.2			
Positive Control[5]				427 ± 34.1	

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	35 ± 3.0
100.0	36 ± 4.5
333.0	29 ± 2.1
1000.0	38 ± 2.9
3333.0	38 ± 1.2[p]
10000.0	37 ± 4.1[p]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	556 ± 24.2
Positive Control[9]	
Positive Control[5]	

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	233 ± 6.9	235 ± 11.8	273 ± 31.4	259 ± 12.9	300 ± 8.2
100.0	213 ± 1.2	232 ± 5.3	288 ± 11.4	253 ± 19.7	
333.0	236 ± 2.0	232 ± 20.8	294 ± 4.7	253 ± 20.0	276 ± 18.7
666.0					282 ± 17.4
1000.0	240 ± 14.2	239 ± 9.1	283 ± 8.3	279 ± 22.4	291 ± 12.1
1666.0					307 ± 9.1
3333.0	236 ± 10.9[p]	237 ± 2.9[p]	287 ± 6.2[p]	277 ± 39.2[p]	272 ± 25.0[p]
6666.0					356 ± 42.6[p]
10000.0	248 ± 18.5[p]	259 ± 4.3[p]	310 ± 3.4[p]	267 ± 57.3[p]	277 ± 4.4[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[10]	1145 ± 65.0	893 ± 5.6			
Positive Control[7]			648 ± 7.2	940 ± 18.7	878 ± 20.5

Strain: TA102

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	281 ± 10.2	388 ± 29.6	337 ± 22.8
100.0	279 ± 24.1	361 ± 21.0	
333.0	285 ± 16.2	351 ± 38.4	297 ± 9.1
666.0			296 ± 17.2
1000.0	280 ± 6.4	421 ± 48.5	332 ± 11.9
1666.0			313 ± 9.6
3333.0	275 ± 15.5[p]	447 ± 5.3[p]	357 ± 23.4[p]
6666.0			345 ± 15.8[p]
10000.0	245 ± 10.3[p]	565 ± 35.4[p]	390 ± 11.6[p]
Trial Summary	Negative	Equivocal	Negative
Positive Control[10]			
Positive Control[7]	762 ± 18.8	963 ± 7.0	860 ± 8.7

Experiment Number: **A15624**

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

G06: Ames Summary Data

Test Compound: **Chromium picolinate**

CAS Number: **14639-25-9**

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

Time Report Requested: **01:42:23**

Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	432 ± 3.0	254 ± 11.6	281 ± 17.2	359 ± 30.2	322 ± 8.3
100.0	421 ± 16.6	293 ± 2.8	306 ± 5.3	418 ± 34.7	294 ± 27.4
333.0	457 ± 8.0	267 ± 11.5	328 ± 2.0	405 ± 19.7	313 ± 26.2
1000.0	437 ± 7.3	232 ± 4.2	313 ± 10.2	429 ± 39.4	322 ± 2.7
3333.0	444 ± 15.4[p]	261 ± 8.2[p]	320 ± 5.4[p]	373 ± 30.9[p]	340 ± 10.1[p]
10000.0	415 ± 10.1[p]	280 ± 17.8[p]	363 ± 21.5[p]	377 ± 16.6[p]	354 ± 7.5[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[7]			888 ± 12.1	915 ± 36.2	1019 ± 7.4
Positive Control[11]	947 ± 44.7	1281 ± 317.1			

Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	422 ± 7.1
100.0	422 ± 6.5
333.0	471 ± 13.8
1000.0	427 ± 10.7
3333.0	427 ± 13.1[p]
10000.0	422 ± 19.9[p]
Trial Summary	Negative
Positive Control[7]	1124 ± 41.9
Positive Control[11]	

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: 2.0 ug/Plate 2-Aminoanthracene
4: 5.0 ug/Plate Sodium Azide
5: 5.0 ug/Plate 2-Aminoanthracene
6: 2.0 ug/Plate Sodium Azide
7: 10.0 ug/Plate 2-Aminoanthracene
8: 50.0 ug/Plate 9-Aminoacridine
9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
10: 0.5 ug/Plate Mitomycin-C
11: 250.0 ug/Plate Methyl Methane Sulfonate
p: Precipitate

** END OF REPORT **