

Experiment Number: **A79569**

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

G06: Ames Summary Data

Test Compound: **Cobalt**

CAS Number: **7440-48-4**

Date Report Requested: **09/18/2018**

Time Report Requested: **10:27:57**

NTP Study Number:

A79569

Study Result:

Positive

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G06: Ames Summary Data

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CAS Number: 7440-48-4

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	85 ± 6.8	57 ± 4.5	78 ± 2.2	84 ± 8.1	96 ± 3.8
100.0	77 ± 12.1	85 ± 5.3	81 ± 2.3		
500.0	146 ± 9.5	107 ± 1.5	97 ± 3.0	83 ± 1.0	101 ± 4.9
1000.0	165 ± 4.4	133 ± 4.5	91 ± 3.5	92 ± 10.2 ^P	97 ± 2.3
2500.0	128 ± 11.5	118 ± 3.1	86 ± 3.6	80 ± 6.4 ^P	80 ± 8.6
5000.0	25 ± 15.8	104 ± 0.9	84 ± 4.6	44 ± 15.9 ^P	85 ± 7.0
7500.0				55 ± 8.7 ^P	96 ± 4.0
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²	400 ± 61.8	206 ± 1.9	304 ± 0.7		
Positive Control ³				949 ± 38.2	511 ± 15.1

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CAS Number: 7440-48-4

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	35 ± 3.0	19 ± 2.3	22 ± 2.6	28 ± 1.8	29 ± 2.1
100.0	24 ± 3.8	66 ± 5.5	43 ± 7.4		
500.0	54 ± 2.9	33 ± 3.2	47 ± 7.0	37 ± 5.5	18 ± 0.9
1000.0	70 ± 4.5			20 ± 1.3 ^P	12 ± 0.7
1500.0		12 ± 0.7	52 ± 7.9		
2500.0	18 ± 6.0	10 ± 0.3	11 ± 1.0	16 ± 5.4 ^P	11 ± 2.0
3500.0		0 ± 0.0	2 ± 0.7		
5000.0	Toxic			12 ± 3.5 ^P	12 ± 2.0
7500.0				5 ± 1.7 ^P	2 ± 0.9
Trial Summary	Equivocal	Positive	Positive	Negative	Negative
Positive Control ³				751 ± 72.3	474 ± 44.3
Positive Control ⁴	517 ± 30.0		254 ± 19.5		
Positive Control ⁵		461 ± 17.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	34 ± 1.9
100.0	
500.0	22 ± 2.0
1000.0	20 ± 0.9
1500.0	
2500.0	26 ± 1.5
3500.0	
5000.0	21 ± 1.2
7500.0	15 ± 2.1
Trial Summary	Negative
Positive Control ³	353 ± 28.0
Positive Control ⁴	
Positive Control ⁵	

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CAS Number: 7440-48-4

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	163 ± 13.0	201 ± 7.2	197 ± 9.4	272 ± 4.4	220 ± 36.9
5.0				283 ± 13.3	
25.0		148 ± 9.0	238 ± 5.7	297 ± 9.1	
50.0	237 ± 5.4	90 ± 8.1	184 ± 15.6	268 ± 1.2	239 ± 6.1
75.0				243 ± 3.5	
100.0	206 ± 22.2	134 ± 8.5	42 ± 0.9	224 ± 2.3	130 ± 7.0
150.0	235 ± 4.2	0 ± 0.3	0 ± 0.0		220 ± 18.5
200.0		0 ± 0.0	0 ± 0.0		
300.0	Toxic				113 ± 24.5
450.0	Toxic				89 ± 32.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶		1237 ± 55.6			1017 ± 150.7
Positive Control ⁷	1485 ± 205.4		1531 ± 42.9	1981 ± 22.9	

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	233 ± 3.5	250 ± 9.5	291 ± 2.3
5.0			
25.0			319 ± 9.2
50.0	58 ± 5.8	238 ± 9.0	278 ± 10.2
75.0			276 ± 10.2
100.0	41 ± 2.6	175 ± 3.9	255 ± 3.4
150.0	16 ± 4.1	73 ± 5.9	261 ± 4.1
200.0			
300.0	1 ± 1.0	4 ± 0.9	
450.0	1 ± 1.0	1 ± 0.3	
Trial Summary	Negative	Negative	Negative
Positive Control ⁶	855 ± 4.8	886 ± 9.4	1172 ± 36.4
Positive Control ⁷			

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LEGEND

Values given as Mean or Mean \pm 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: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 5.0 ug/Plate 2-Aminoanthracene

6: 20.0 ug/Plate 2-Aminoanthracene

7: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

**** END OF REPORT ****