

Experiment Number: 865450

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

G06: Ames Summary Data

Test Compound: **Cobaltocene**

CAS Number: 1277-43-6

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

Time Report Requested: **15:52:11**

NTP Study Number:

865450

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	90 ± 1.0	119 ± 11.3	84 ± 2.6	132 ± 13.9	106 ± 8.4
3.0	88 ± 8.5	150 ± 2.1			
10.0	114 ± 12.7	130 ± 7.6			
33.0	118 ± 4.3	143 ± 7.0			104 ± 10.9
100.0	179 ± 2.3	140 ± 8.5	110 ± 6.6	158 ± 13.9	117 ± 11.6
166.0	179 ± 1.5	153 ± 12.4			
333.0			140 ± 9.5	171 ± 7.8	164 ± 3.8
1000.0			183 ± 8.8	236 ± 1.5	166 ± 8.5
1666.0				264 ± 16.8	186 ± 8.0
3333.0			205 ± 18.7 ^P	235 ± 13.7 ^P	
6666.0			0 ± 0.0 ^X		
Trial Summary	Weakly Positive	Equivocal	Positive	Positive	Weakly Positive
Positive Control ²					309 ± 8.0
Positive Control ³			330 ± 6.8	448 ± 12.4	
Positive Control ⁴	573 ± 13.3	362 ± 20.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	168 ± 6.8
3.0	
10.0	
33.0	169 ± 8.0
100.0	168 ± 7.4
166.0	
333.0	185 ± 10.4
1000.0	219 ± 9.0
1666.0	240 ± 15.2
3333.0	
6666.0	
Trial Summary	Weakly Positive
Positive Control ²	473 ± 10.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.7	6 ± 0.7	8 ± 0.3
3.0	17 ± 1.3		
10.0	15 ± 1.5		
33.0	17 ± 1.5		12 ± 2.0
100.0	20 ± 2.6	9 ± 1.5	9 ± 1.9
166.0	25 ± 0.9		
333.0		6 ± 0.6	10 ± 1.2
1000.0		14 ± 1.2	16 ± 2.4
1666.0			14 ± 1.2
3333.0		17 ± 1.5 ^P	
6666.0		0 ± 0.0 ^X	
Trial Summary	Negative	Equivocal	Negative
Positive Control ³			175 ± 13.6
Positive Control ⁴	445 ± 27.4		
Positive Control ⁵		139 ± 12.9	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	132 ± 11.8	172 ± 3.7	138 ± 8.5	135 ± 9.3	186 ± 7.6
3.0	150 ± 10.7				
10.0	151 ± 5.6				
33.0	146 ± 4.1				
100.0	178 ± 4.4	169 ± 10.1	150 ± 13.1	155 ± 2.9	210 ± 1.7
166.0	167 ± 7.4				
333.0		175 ± 5.8	186 ± 9.5	198 ± 19.0	211 ± 18.3
1000.0		252 ± 5.4	216 ± 8.1	191 ± 12.3	193 ± 11.2
1666.0		232 ± 9.8		218 ± 17.3	181 ± 8.2
3333.0		76 ± 16.9 ^x	206 ± 12.8 ^p	206 ± 22.6 ^p	109 ± 11.0 ^x
6666.0			23 ± 5.9 ^x		
Trial Summary	Equivocal	Equivocal	Weakly Positive	Weakly Positive	Negative
Positive Control ²					
Positive Control ³		434 ± 18.0	303 ± 5.6	271 ± 4.8	335 ± 58.5
Positive Control ⁵					
Positive Control ⁶	826 ± 25.6				

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	195 ± 6.4	146 ± 9.0	160 ± 9.8
3.0			
10.0			
33.0		144 ± 4.4	161 ± 14.6
100.0	205 ± 1.5	144 ± 9.2	192 ± 6.9
166.0			
333.0	213 ± 10.3	166 ± 9.1	182 ± 14.0
1000.0	206 ± 8.8	207 ± 5.3	206 ± 6.7
1666.0	164 ± 1.5	249 ± 12.4	245 ± 23.4
3333.0	145 ± 4.3 ^p		
6666.0			
Trial Summary	Negative	Weakly Positive	Equivocal
Positive Control ²		325 ± 16.6	355 ± 13.3
Positive Control ³			
Positive Control ⁵	465 ± 45.2		
Positive Control ⁶			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.8	24 ± 3.4	24 ± 1.5
3.0	15 ± 1.9		
10.0	16 ± 0.9		
33.0	14 ± 1.9		28 ± 3.8
100.0	22 ± 2.5	23 ± 1.5	24 ± 4.1
166.0	18 ± 0.7		
333.0		20 ± 0.7	26 ± 0.6
1000.0		31 ± 1.7	27 ± 1.2
1666.0			27 ± 3.8
3333.0		21 ± 1.2 ^P	
6666.0		17 ± 1.9 ^X	
Trial Summary	Negative	Negative	Negative
Positive Control ²			241 ± 32.1
Positive Control ³		167 ± 8.7	
Positive Control ⁷	328 ± 16.5		

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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: Dimethyl Sulfoxide
- 2: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate Sodium Azide
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 50.0 ug/Plate 9-Aminoacridine
- 7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- x: Slight Toxicity and Precipitate

** END OF REPORT **