

Experiment Number: 591193

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

**G06: Ames Summary Data**

Test Compound: **Cobalt sulfate heptahydrate**

CAS Number: **10026-24-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **18:06:18**

**NTP Study Number:**

591193

**Study Result:**

Weakly Positive

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## G06: Ames Summary Data

Test Compound: Cobalt sulfate heptahydrate

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control <sup>1</sup>	102 ± 6.4	113 ± 6.8	107 ± 8.5	116 ± 8.7	117 ± 10.6
3.0					
10.0		143 ± 4.7	134 ± 6.8		133 ± 1.5
33.0		155 ± 1.7	160 ± 10.2	143 ± 12.2	164 ± 4.7
100.0	201 ± 15.3	152 ± 7.9	163 ± 2.2	176 ± 8.0	188 ± 7.5
333.0	217 ± 7.0	208 ± 11.7	204 ± 9.4	189 ± 15.9	201 ± 1.2
1000.0	204 ± 14.7	206 ± 17.6	152 ± 9.0	168 ± 8.2	143 ± 24.2
3333.0	126 ± 15.3			146 ± 9.8	
10000.0	101 ± 10.3 <sup>s</sup>				
Trial Summary	Positive	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				909 ± 16.2	1011 ± 25.0
Positive Control <sup>4</sup>	429 ± 7.8	312 ± 2.9	290 ± 20.1		
Positive Control <sup>5</sup>					

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 5% Hamster S9</b>	<b>With 5% Hamster S9</b>
Vehicle Control <sup>1</sup>	124 ± 10.7	151 ± 12.3	131 ± 3.0	117 ± 9.6	98 ± 6.4
3.0					119 ± 11.9
10.0					137 ± 13.7
33.0	122 ± 4.4		123 ± 14.8	118 ± 5.6	162 ± 8.4
100.0	142 ± 5.8	179 ± 16.6	144 ± 10.7	175 ± 1.5	176 ± 14.8
333.0	154 ± 4.9	223 ± 6.9	138 ± 8.4	188 ± 6.2	163 ± 1.5
1000.0	133 ± 5.5	191 ± 0.0	137 ± 11.2	187 ± 6.1	
3333.0	124 ± 4.3	202 ± 1.9	135 ± 5.3	176 ± 7.3	
10000.0		176 ± 12.5			
Trial Summary	Negative	Equivocal	Negative	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>				922 ± 44.3	
Positive Control <sup>3</sup>	556 ± 32.4				897 ± 57.6
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>		244 ± 6.7	521 ± 41.2		

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	130 ± 15.0	139 ± 11.2	159 ± 3.9
3.0			
10.0			
33.0	134 ± 9.8		168 ± 15.0
100.0	156 ± 2.8	194 ± 9.0	166 ± 0.7
333.0	187 ± 2.5	179 ± 6.0	193 ± 4.0
1000.0	159 ± 5.0	176 ± 3.0	160 ± 14.0
3333.0	160 ± 3.1	188 ± 18.4	161 ± 5.8
10000.0		123 ± 3.8	
Trial Summary	Equivocal	Equivocal	Negative
Positive Control <sup>2</sup>	577 ± 10.9		
Positive Control <sup>3</sup>		462 ± 31.2	457 ± 22.2
Positive Control <sup>4</sup>			
Positive Control <sup>5</sup>			

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 5% Rat S9</b>	<b>With 5% Hamster S9</b>
Vehicle Control <sup>1</sup>	16 ± 1.2	11 ± 1.5	12 ± 3.3
3.0			10 ± 2.6
10.0	17 ± 2.0	8 ± 1.3	9 ± 2.6
33.0	14 ± 2.3	10 ± 1.5	8 ± 0.3
100.0	9 ± 1.2	8 ± 0.9	5 ± 0.6
333.0	8 ± 1.7	9 ± 0.3	4 ± 1.2
1000.0	9 ± 1.3	8 ± 1.5	
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			64 ± 4.9
Positive Control <sup>4</sup>	213 ± 24.0		
Positive Control <sup>5</sup>		186 ± 35.6	

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## G06: Ames Summary Data

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	22 ± 2.3	36 ± 1.8	28 ± 1.7	32 ± 3.3	32 ± 4.2
10.0		33 ± 4.9	29 ± 2.1		
33.0		42 ± 3.0	38 ± 3.8		
100.0	26 ± 0.5	41 ± 4.7	45 ± 7.5	26 ± 1.2	44 ± 3.5
333.0	25 ± 4.0	55 ± 5.6	46 ± 4.5	26 ± 0.6	54 ± 8.5
1000.0	19 ± 0.6	55 ± 2.9	33 ± 1.8	14 ± 0.6 <sup>s</sup>	28 ± 1.5
3333.0	16 ± 3.4			16 ± 4.0 <sup>s</sup>	21 ± 2.0
10000.0	5 ± 2.7 <sup>s</sup>			7 ± 2.6 <sup>s</sup>	24 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		742 ± 14.8	451 ± 12.5	104 ± 5.9	105 ± 6.5
Positive Control <sup>6</sup>	372 ± 12.5				

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Mutagenicity****G06: Ames Summary Data**Test Compound: **Cobalt sulfate heptahydrate**

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**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>	<b>With 5% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	34 ± 1.5	32 ± 2.2	32 ± 0.6	32 ± 3.8	24 ± 1.7
10.0	27 ± 1.2	36 ± 2.7	28 ± 0.9		20 ± 2.3
33.0	24 ± 2.3	31 ± 4.4	38 ± 2.7		24 ± 1.9
100.0	37 ± 3.5	45 ± 4.1	39 ± 4.6	44 ± 4.7	23 ± 3.5
333.0	37 ± 3.3	40 ± 1.2	43 ± 0.0	53 ± 4.2	34 ± 2.6
1000.0	34 ± 3.8	42 ± 2.8	48 ± 7.6	47 ± 7.3	29 ± 4.8
3333.0				44 ± 4.7	
10000.0				31 ± 3.8	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>		671 ± 34.6	687 ± 24.7		
Positive Control <sup>3</sup>	208 ± 15.8			328 ± 4.3	542 ± 38.5
Positive Control <sup>6</sup>					

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**LEGEND**

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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: 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: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***