

Cadmium sulfate (x hydrate) (硫酸カドミウム)

Chemical Name: Cadmium sulfate (x hydrate)
 Synonym
 Molecular weight:
 Melting point: °C
 Boiling point: °C
 Chemical Structure
 $CdSO_4 \cdot xH_2O$
 CAS No: 15244-35-6
 MITI No: (1)-663
 Source of Substance: Wako Pure Chem. Ind., Ltd.
 Lot.No.: PEQ4605
 Purity: Guaranteed reagent
 Vehicle: H₂O

Mutagenicity
 in Bacterial Test: Negative

IARC Evaluation: not yet cited

Judgement
 Specific Mutagenicity
 Positive
 Control

Con. μg/ plate	Experimental Data													
	Number of Revertants/plate													
	Base-substitution						Frame-shift							
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538			
S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+			
H ₂ O	(211)	()	()	()	()	()	()	()	()	(20)	()	()	()	
	201									14				
	197									8				
10	(199)	()	()	()	()	()	()	()	()	(11)	()	()	()	
	197									8				
	212									3				
20	(205)	()	()	()	()	()	()	()	()	(6)	()	()	()	
	191									11				
	199									5				
50	(195)	()	()	()	()	()	()	()	()	(8)	()	()	()	
	162									9				
	160									8				
100	(161)	()	()	()	()	()	()	()	()	(9)	()	()	()	
	147									13				
	175									8				
200	(161)	()	()	()	()	()	()	()	()	(11)	()	()	()	
	188*									9				
	168*									6				
500	(178*)	()	()	()	()	()	()	()	()	(8)	()	()	()	
	162*									8*				
	150*									6*				
1000	(156*)	()	()	()	()	()	()	()	()	(7*)	()	()	()	
	-									-				
	AF2	2AA	0.5	NaN ₃	2AA	AF2	2AA	80	AF2	2AA	9AA	2AA	4NQO	2AA
	(767)	()	()	()	()	()	()	()	()	()	(264)	()	()	()

Experimental Data

Con. μg/ plate	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
H ₂ O	()	(196)	(29)	(12)	(36)	(30)	(29)	(50)	()	(16)	(10)	(15)
		189	22	14	33	30	29	51		12	8	25
		221	17	14	43	16	28	52		8	12	13
50	()	(205)	(20)	(14)	(38)	(23)	(29)	(52)	()	(10)	(10)	(19)
		211	16	30	36	38	33	47		16	10	11
		209	18	12	28	35	28	48		5	13	18
100	()	(210)	(17)	(21)	(32)	(37)	(31)	(48)	()	(11)	(12)	(15)
		212	13	8	32	35	27	49		11	11	18
		210	19	18	36	15	23	55		13	10	23
200	()	(211)	(16)	(13)	(34)	(25)	(25)	(52)	()	(12)	(11)	(21)
		216	19	14	42	28	22	45		6	10	25
		189	14	13	28	33	21	51		14	4	24
500	()	(203)	(17)	(14)	(35)	(31)	(22)	(48)	()	(10)	(7)	(25)
		208	5*	7	28	19	18	48		14	13	21
		190	13*	4	33	27	21	50		11	8	19
1000	()	(199)	(9*)	(6)	(31)	(23)	(20)	(49)	()	(13)	(10)	(20)
		142*	5*	1*	8*	13*	25	52		6	7	9
		112*	8*	1*	8*	8*	19	68		5	9	16
2000	()	(127*)	(7*)	(1*)	(8*)	(11*)	(22)	(60)	()	(6)	(8)	(13)
		105*	3*	3*	9*	0*	14*	25*		7*	0*	3*
		129*	0*	5*	4*	1*	16*	26*		3*	0*	1*
5000	()	(117*)	(2*)	(4*)	(7*)	(1*)	(15*)	(25*)	()	(5*)	(0*)	(2*)
Judgement												
Specific Mutagenicity												
Positive	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
Control	()	(625)	(347)	(191)	(386)	(1133)	(404)	(406)	()	(272)	(259)	(216)