

Nickel sulfamate (4 hydrate)(スルファミン酸ニッケル)

Chemical Name: Nickel sulfamate (4 hydrate)
Synonym
Molecular weight: 322.93
Melting point: °C
Boiling point: °C
Chemical Structure
Ni(NH ₂ SO ₃) ₂ · 4H ₂ O
CAS No: 124594-15-6
MITI No: (1)-393
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot. No. : KWM1118
Purity:
Vehicle: H ₂ O

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	(180)	(226)	(31)	(14)	(36)	(41)	(20)	(32)	(9)	(22)	(19)	(25)
	221	247	55	16	33	35	23	29	13	28	23	33
	219	244	43	23	36	57	24	43	16	18	13	25
100	(220)	(246)	(49)	(20)	(35)	(46)	(24)	(36)	(15)	(23)	(18)	(29)
	211	258	27	16	38	45	23	50	9	23	11	27
	189	248	31	14	35	45	21	36	6	20	8	23
200	(200)	(253)	(29)	(15)	(37)	(45)	(22)	(43)	(8)	(22)	(10)	(25)
	206	246	31	13	42	41	28	62	11	22	23	38
	213	259	26	16	46	43	34	60	9	19	28	25
500	(210)	(253)	(29)	(15)	(44)	(42)	(31)	(61)	(10)	(21)	(26)	(32)
	200	281	28	11	33	33	20	48	6	30	21	38
	228	227	35	18	43	28	23	62	5	33	21	21
1000	(214)	(254)	(32)	(15)	(38)	(31)	(22)	(55)	(6)	(32)	(21)	(30)
	203	250	35	14	26	38	18	45	5	16	7	44
	241	221	25	17	32	32	18	60	7	25	13	33
2000	(222)	(236)	(30)	(16)	(29)	(35)	(18)	(53)	(6)	(21)	(10)	(39)
	229*	259	33	21	42	23	28	48*	4	28	19	35*
	250*	279	50	14	28	41	33	45*	1	23	13	43*
5000	(240*)	(269)	(42)	(18)	(35)	(32)	(31)	(47*)	(3)	(26)	(16)	(39*)
	232*	257*	31	18	18	18	34	62*	8	18	14	25*
	219*	244*	31	13	38	20	45	58*	13	21	12	30*
10000	(226*)	(251*)	(31)	(16)	(28)	(19)	(40)	(60*)	(11)	(20)	(13)	(28*)
	—	—	—	—	—	—	—	—	—	—	—	—
	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
	(679)	(582)	(402)	(268)	(207)	(2113)	(534)	(158)	(135)	(400)	(297)	(384)

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+
DMSO	()	()	()	()	()	()	(29)	(49)	()	()	()	()
							31	69				
100	()	()	()	()	()	()	(31)	(57)	()	()	()	()
							30	44				
200	()	()	()	()	()	()	(28)	(65)	()	()	()	()
							23	69				
500	()	()	()	()	()	()	(27)	(55)	()	()	()	()
							33	61				
1000	()	()	()	()	()	()	(40)	(53)	()	()	()	()
							28	62				
2000	()	()	()	()	()	()	(30)	(71)	()	()	()	()
							26	47				
5000	()	()	()	()	()	()	(24)	(68*)	()	()	()	()
							32	54				
10000	()	()	()	()	()	()	(32)	(76*)	()	()	()	()
							47	51				
							35	74				
							24	67				
							22	59*				
							25	76*				
							34	67*				
							30	85*				
							-	-				
Judgement												
Specific Mutagenicity												
Positive Control	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
Control	()	()	()	()	()	()	(562)	(628)	()	()	()	()