

Nickel(II)chloride (6 hydrate)(塩化ニッケル)

Chemical Name: Nickel(II)chloride(6 hydrate)
Synonym
Molecular weight: 237.70
Melting point: °C
Boiling point: °C
Chemical Structure
NiCl ₂ · 6H ₂ O
CAS No: 7791-20-0
MITI No: (1)-242
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: CDM2785
Purity: Guaranteed reagent
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)	(166)	(22)	(12)	(28)	(36)	(22)	(42)	(10)	(15)	(18)	(27)
	219	217	28	16	16	30	19	59	6	16	18	36
	192	206	33	18	45	45	41	36	13	12	10	35
100	(206)	(212)	(31)	(17)	(31)	(38)	(30)	(48)	(10)	(14)	(14)	(36)
	224	198	19	16	36	47	24	45	4	19	16	38
	216	217	32	13	42	35	14	46	1	18	11	29
200	(220)	(208)	(26)	(15)	(39)	(41)	(19)	(46)	(3)	(19)	(14)	(34)
	231	250	23	9	28	42	45	55	3	13	19	33
	206	226	29	22	45	40	40	38	9	18	13	34
500	(219)	(238)	(26)	(16)	(37)	(41)	(43)	(47)	(6)	(16)	(16)	(34)
	216	195	28	13	45	30	26	44	4	18	19	40
	247	215	26	11	33	58	24	60	9	11	18	37
1000	(232)	(205)	(27)	(12)	(39)	(44)	(25)	(52)	(7)	(15)	(19)	(39)
	219	212	13	9	43	40	35	50	10	13	18	31
	232	239	15	13	30	30	32	42	3	11	16	40
2000	(226)	(226)	(14)	(11)	(37)	(35)	(34)	(46)	(7)	(12)	(17)	(36)
	201	239	22	8	27*	21	34	96	8	13*	15	46
	219	228	19	9	21*	25	37	59	8	19*	15	36
5000	(210)	(234)	(21)	(9)	(24*)	(23)	(36)	(78)	(8)	(16*)	(15)	(41)
	192	260	23	6	18*	19*	37	89*	14*	5*	9	31
	224	219	13	11	25*	19*	31	110*	3*	13*	16	35
10000	(208)	(240)	(18)	(9)	(22*)	(19*)	(34)	(100*)	(9*)	(9*)	(13)	(33)
	—	—	—	—	—	—	—	—	—	—	—	—
	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
	(855)	(668)	(326)	(197)	(374)	(1270)	(406)	(466)	(278)	(182)	(295)	(402)

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)	()	()	()	()
							30	49				
							36	53				
100	()	()	()	()	()	()	(33)	(51)	()	()	()	()
							23	45				
							24	48				
200	()	()	()	()	()	()	(24)	(47)	()	()	()	()
							40	47				
							23	59				
500	()	()	()	()	()	()	(32)	(53)	()	()	()	()
							46	59				
							21	61				
1000	()	()	()	()	()	()	(34)	(60)	()	()	()	()
							30	57				
							32	57				
2000	()	()	()	()	()	()	(31)	(57)	()	()	()	()
							36	79*				
							37	64*				
5000	()	()	()	()	()	()	(37)	(72*)	()	()	()	()
							40	81*				
							42	87*				
10000	()	()	()	()	()	()	(41)	(84*)	()	()	()	()
							—	—				
Judgement												
Specific Mutagenicity												
Positive Control	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
Control	()	()	()	()	()	()	(565)	(629)	()	()	()	()