

Nickel(II)sulfate (6 hydrate)(硫酸ニッケル)

Chemical Name: Nickel(II)sulfate(6 hydrate)
Synonym
Molecular weight: 262.85
Melting point: °C
Boiling point: °C
Chemical Structure
NiSO ₄ · 6H ₂ O
CAS No: 10101-97-0
MITI No: (1)-813
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot. No. : CDM5535
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	(185)	(194)	(31)	(12)	(24)	(33)	(24)	(25)	(13)	(23)	(9)	(19)
	164	221	19	14	31	29	30	42	13	13	5	15
	211	215	29	22	28	27	37	31	18	21	11	24
100	(188)	(218)	(24)	(18)	(30)	(28)	(34)	(37)	(16)	(17)	(8)	(20)
	192	241	31	14	32	35	30	40	12	14	9	19
	200	217	33	12	25	27	36	53	14	11	8	16
200	(196)	(229)	(32)	(13)	(28)	(31)	(33)	(47)	(13)	(13)	(9)	(18)
	211	255	30	13	36	25	28	59	17	9	9	24
	178	258	19	18	33	25	45	52	6	12	15	20
500	(195)	(257)	(25)	(16)	(35)	(25)	(37)	(56)	(12)	(11)	(12)	(22)
	219	262	23	13	28	31	26	53	14	9	11	27
	189	266	22	9	23	33	39	53	6	8	10	18
1000	(204)	(264)	(23)	(11)	(26)	(32)	(33)	(53)	(10)	(9)	(11)	(23)
	224	261	23	14	34	31	38	52	15	9	4	19
	217	279	9	11	31	28	32	68	15	18	11	22
2000	(221)	(270)	(16)	(13)	(33)	(30)	(35)	(60)	(15)	(14)	(8)	(21)
	251	263	19	13	21	28	40	53*	10	6	4	19
	217	309	11	6	25	28	40	61*	6	9	3	18
5000	(234)	(286)	(15)	(10)	(23)	(28)	(40)	(57*)	(8)	(8)	(4)	(19)
	247	247*	20*	14*	17	9	44	51*	10	11	11	15
	232	253*	14*	16*	9	34	37	65*	6	11	8	24
10000	(240)	(250*)	(17*)	(15*)	(13)	(22)	(41)	(58*)	(8)	(11)	(10)	(20)
	—	—	—	—	—	—	—	—	—	—	—	—
	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
	(964)	(575)	(364)	(211)	(363)	(805)	(630)	(164)	(314)	(206)	(295)	(307)

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)	(50)	()	()	()	()
							33	79				
							25	59				
100	()	()	()	()	()	()	(29)	(69)	()	()	()	()
							29	53				
							34	57				
200	()	()	()	()	()	()	(32)	(55)	()	()	()	()
							34	62				
							33	62				
500	()	()	()	()	()	()	(34)	(62)	()	()	()	()
							28	66				
							26	67				
1000	()	()	()	()	()	()	(27)	(67)	()	()	()	()
							40	48				
							34	57				
2000	()	()	()	()	()	()	(37)	(53)	()	()	()	()
							48	54*				
							28	60*				
5000	()	()	()	()	()	()	(38)	(57*)	()	()	()	()
							62	83*				
							61	94*				
10000	()	()	()	()	()	()	(62)	(89*)	()	()	()	()
							-	-				
Judgement												
Specific Mutagenicity												
Positive	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
Control	()	()	()	()	()	()	(561)	(627)	()	()	()	()