

Sodium borohydride (ナトリウムボロハイドライド)

Experimental Data

Chemical Name: Sodium borohydride
Synonym
Molecular weight: 37.83
Melting point: >300
Boiling point:
Chemical Structure
NaBH <sub>4</sub>
CAS No: 16940-66-2
MITI No: (1)-61
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: EPN1958
Purity: Chemical grade
Vehicle: DMSO

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	(102)	(94)	(18)	(13)	(46)	(51)	(15)	(25)	(5)	(12)	(15)	(20)	
	117	96	18	14	46	39	15	23	3	17	14	22	
	102	96	24	16	46	45	17	25	5	11	17	20	
20	(110)	(96)	(21)	(15)	(46)	(42)	(16)	(24)	(4)	(14)	(16)	(21)	
	97	95	17	13	44	45	12	33	7	11	13	25	
	89	89	21	10	37	45	18	22	5	8	10	23	
50	(93)	(92)	(19)	(12)	(41)	(45)	(15)	(28)	(6)	(10)	(12)	(24)	
	112	97	20	12	38	41	10	39	8	11	16	26	
	111	101	18	10	50	56	16	26	8	8	11	15	
100	(112)	(99)	(19)	(11)	(44)	(49)	(13)	(33)	(8)	(10)	(14)	(21)	
	106	89	19	18	42	42	17	25	4	9	13	26	
	102	103	17	15	54	49	17	31	9	10	12	27	
200	(104)	(96)	(18)	(17)	(48)	(46)	(17)	(28)	(7)	(10)	(13)	(27)	
	93	93	18	10	47	50	9	37	3	11	14	21	
	105	121	19	10	52	47	13	26	5	9	13	25	
500	(99)	(107)	(19)	(10)	(50)	(49)	(11)	(32)	(4)	(10)	(14)	(23)	
	89	112	11	8	37	49	10	21	2	10	7	21	
	102	118	9	9	29	58	10	22	8	7	6	25	
1000	(96)	(115)	(10)	(9)	(33)	(54)	(10)	(22)	(5)	(9)	(7)	(23)	
	0*	88	0*	5*	33	48	3*	11	0*	2*	5	10	
	0*	100	0*	5*	36	63	0*	12	0*	3*	7	11	
2000	(0*)	(94)	(0*)	(5*)	(35)	(56)	(2*)	(12)	(0*)	(3*)	(6)	(11)	
	0*	47*	0*	0*	0*	48	0*	0*	0*	0*	0*	5*	
	0*	45*	0*	0*	0*	40	0*	0*	0*	0*	0*	6*	
5000	(0*)	(46*)	(0*)	(0*)	(0*)	(44)	(0*)	(0*)	(0*)	(0*)	(0*)	(6*)	
	-	-	-	-	-	-	-	-	-	-	-	-	
Judgement													
Specific Mutagenicity													
Positive	AF2	2AA	0.5	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
Control	(463)	(548)	(210)	(294)	(477)	(770)	(241)	(721)	(660)	(221)	(395)	(728)	