

Ammonium pentaborate (ホウ酸アンモニウム)

Chemical Name: Ammonium pentaborate
Synonym
Molecular weight: 544.29
Melting point:
Boiling point:
Chemical Structure
$(\text{NH}_4)_2\text{O} \cdot 5\text{B}_2\text{O}_3 \cdot 8\text{H}_2\text{O}$
CAS No: 12007-89-5
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No. : EPK3614
Purity: Guaranteed reagent
Vehicle: H ₂ O

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	(102)	(115)	(20)	(11)	(49)	(70)	(14)	(28)	(6)	(11)	(17)	(25)	
	121	101	21	13	65	66	12	20	5	7	13	25	
	111	115	19	11	58	64	16	33	6	12	13	25	
20	(116)	(108)	(20)	(12)	(62)	(65)	(14)	(27)	(6)	(10)	(13)	(25)	
	114	90	15	10	55	59	16	23	7	13	12	16	
	109	114	18	12	61	58	15	25	11	8	16	25	
50	(112)	(102)	(17)	(11)	(58)	(59)	(16)	(24)	(9)	(11)	(14)	(21)	
	111	100	16	12	55	76	15	30	5	12	13	26	
	92	125	17	11	50	59	13	24	4	8	15	21	
100	(102)	(113)	(17)	(12)	(56)	(68)	(14)	(27)	(5)	(10)	(14)	(24)	
	106	116	22	14	57	65	12	31	6	6	12	28	
	111	121	19	14	49	70	19	26	4	5	18	25	
200	(109)	(119)	(21)	(14)	(53)	(68)	(16)	(29)	(5)	(6)	(15)	(27)	
	122	136	22	15	47	70	14	24	8	15	14	28	
	114	109	16	12	66	68	15	23	6	7	15	25	
500	(118)	(123)	(19)	(14)	(57)	(69)	(15)	(24)	(7)	(11)	(15)	(27)	
	105	132	21	9	55	60	13	21	5	10	19	21	
	129	114	25	18	61	78	17	30	3	12	17	26	
1000	(117)	(123)	(23)	(14)	(58)	(69)	(15)	(26)	(4)	(11)	(18)	(24)	
	107	136	21	12	46	77	12	27	3	9	19	20	
	109	117	18	11	60	74	19	19	5	6	13	20	
2000	(108)	(127)	(20)	(12)	(53)	(76)	(16)	(23)	(4)	(8)	(16)	(20)	
	105	108	12	8	65	69	9	25	4	8	17	22	
	104	134	23	9	57	71	11	22	7	7	12	24	
5000	(105)	(121)	(18)	(9)	(61)	(70)	(10)	(24)	(6)	(8)	(15)	(23)	
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Judgement	—												
Specific Mutagenicity	—												
Positive	AF2	2AA	0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
Control	(361)	(444)	(205)	(321)	(319)	(842)	(339)	(553)	(718)	(184)	(277)	(639)	