

Copper(II)sulfate(5 hydrate) (硫酸銅)

Experimental Data

Chemical Name:	Copper(II)sulfate(5 hydrate)
Synonym	Blue Vitriol
Molecular weight:	249.68
Melting point:	200°C
Boiling point:	
Chemical Structure	
	CuSO ₄ · 5H ₂ O
CAS No:	7758-99-8
MITI No:	(1)-296
Source of Substance:	Wako Pure Chem. Ind., Ltd.
Lot.No.:	STM2711
Purity:	Guaranteed reagent
Vehicle:	H ₂ O

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	(146)	(142)	(23)	(17)	(53)	(58)	(20)	(28)	(10)	(14)	(16)	(26)
		156		19		51		21		8		21
		178		19		47		37		11		20
5	(167)		(19)		(49)		(29)		(10)		(21)	
		132		20		62		28		17		24
		131		29		61		16		7		18
10	(132)		(25)		(62)		(22)		(12)		(21)	
		129		20		56		21		7		22
		134		26		50		20		10		16
20	(132)	(151)	(23)	(27)	(51)	(53)	(21)	(20)	(7)	(10)	(16)	(19)
		114		27		40		18		11		15
		154		22		57		17		6		17
50	(134)	(142)	(25)	(23)	(45)	(49)	(18)	(14)	(8)	(9)	(16)	(16)
		125		18		59		18		6		19
		115		18		42		18		6		21
100	(120)	(105)	(18)	(23)	(41)	(51)	(18)	(16)	(8)	(6)	(16)	(20)
		168		16		40		18		8		21
		147		17		23		18		6		14
200	(158)	(62)	(17)	(12)	(44)	(32)	(18)	(11)	(6)	(7)	(11)	(18)
		118		19		13*		20		4*		11*
		103		19		10*		15		4*		10*
500	(111)	(74*)	(19)	(11)	(33)	(12*)	(18)	(8*)	(6)	(4*)	(17)	(11*)
		137		21		12*		13		1*		8*
		107		20		14*		12		2*		5*
1000	(122)	(65*)	(21)	(3*)	(22)	(13*)	(13)	(6*)	(6)	(2*)	(15)	(7*)
		110		22		19		11		1		14
		102		20		20		12		2		12
2000	(106)		(21)		(20)		(12)		(2)		(13)	
		135		15		16		6		0		5
		97		16		12		8		0		11
5000	(116)		(16)		(14)		(7)		(0)		(8)	
Judgement	-	-	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity												
Positive	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
Control	(586)	(1114)	(271)	(201)	(383)	(787)	(363)	(666)	(676)	(273)	(342)	(670)