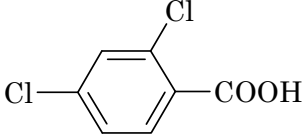


Experimental Data-1

(B0303-1/2)

2,4-Dichlorobenzoic acid (2,4-ジクロロ安息香酸)

Chemical Name	: <u>2,4-Dichlorobenzoic acid</u>
Synonym	: <u>2,4-DCBA</u>
Molecular Weight	: 191.01
Melting Point	: 164°C[CHCD]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₇ H ₄ Cl ₂ O ₂
Chemical Structure:	
CAS No.	: 50-84-0
MITI No.	: (3)-1410, (3)-1424, (3)-62
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GF01
Purity	: 95%
Vehicle	: DMSO

Mutagenicity in Bacterial Test: Negative

IARC Evaluation : Not yet cited

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(110)	(121)	(10)	(9)	(80)	(117)	(15)	(21)	(10)
1 .22	86	117	8	11	75	107	18	22	9	10
	102	129	8	13	85	111	25	26	13	9
	(94)	(123)	(8)	(12)	(80)	(109)	(22)	(24)	(11)	(10)
4 .88	92	86	13	17	84	127	11	30	9	5
	97	115	10	10	93	126	15	21	5	8
	(95)	(101)	(12)	(14)	(89)	(127)	(13)	(26)	(7)	(7)
19 .5	109	104	10	6	71	105	13	21	8	14
	98	128	7	8	81	120	13	17	6	8
	(104)	(116)	(9)	(7)	(76)	(113)	(13)	(19)	(7)	(11)
78 .1	96	102	13	9	86	124	16	16	11	10
	97	135	14	8	72	121	20	11	7	8
	(97)	(119)	(14)	(9)	(79)	(123)	(18)	(14)	(9)	(9)
313	111	99	11	8	86	131	17	31	6	14
	97	123	11	7	76	106	15	20	14	13
	(104)	(111)	(11)	(8)	(81)	(119)	(16)	(26)	(10)	(14)
1250	112	115	17	7	96	109	16	28	7	8
	104	114	9	10	85	109	11	20	8	16
	(108)	(115)	(13)	(9)	(91)	(109)	(14)	(24)	(8)	(12)
5000 †	86	108	16	4	81	109	10	20	5	2
	106	103	7	4	84	126	10	18	5	4
	(96)	(106)	(12)	(4)	(83)	(118)	(10)	(19)	(5)	(3)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (684)	2-AA (1308)	NaN ₃ (361)	2-AA (274)	AF-2 (1237)	2-AA (866)	AF-2 (462)	2-AA (439)	9-AA (393)	2-AA (226)

† Test chemical was precipitated with S9mix.

Experimental Data-2

(B0303-2/2)

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(92)	(114)	(10)	(6)	(88)	(111)	(13)	(24)	(7)	(11)
313	115	87	10	7	84	124	10	23	6	9
	106	106	10	6	99	115	10	21	7	9
	(111)	(97)	(10)	(7)	(92)	(120)	(10)	(22)	(7)	(9)
625	86	120	8	6	96	116	16	25	6	7
	98	96	8	9	70	124	9	18	9	7
	(92)	(108)	(8)	(8)	(83)	(120)	(13)	(22)	(8)	(7)
1250	120	111	6	9	87	114	8	22	3	11
	92	117	14	9	96	138	20	21	9	9
	(106)	(114)	(10)	(9)	(92)	(126)	(14)	(22)	(6)	(10)
2500	104	92	9	5	86	123	21	26	7	5
	107	106	7	8	78	94	13	25	5	6
	(106)	(99)	(8)	(7)	(82)	(109)	(17)	(26)	(6)	(6)
5000 †	85	99	11	4	93	121	15	23	3	5
	116	104	7	4	74	119	10	13	3	4
	(101)	(102)	(9)	(4)	(84)	(120)	(13)	(18)	(3)	(5)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (710)	2-AA (1460)	NaN ₃ (312)	2-AA (237)	AF-2 (1643)	2-AA (942)	AF-2 (400)	2-AA (478)	9-AA (349)	2-AA (231)

† Test chemical was precipitated with S9mix.