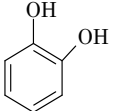


Experimental Data-1

(B9911-1/2)

Pyrocatechol (ピロカテコール)

Chemical Name	: <u>Pyrocatechol</u>
Synonym	: <u>Catechol</u> <u>o-Benzenediol</u> <u>1,2-Benzenediol</u> <u>Pyrocatechin</u> <u>1,2-Dihydroxybenzene</u>
Molecular Weight	: 110.11
Melting Point	: 105°C [CHCD]
Boiling Point	: 240°C [CHCD]
Flashing Point	: 126°C [CHCD]
Molecular Formula	: C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>
Chemical Structure:	
CAS No.	: 120-80-9
METI No.	: (3)-543
MHLW No.	: -
Specified Chemical Substances:	-
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GG01
Purity	: >99%
Vehicle	: Distilled H <sub>2</sub> O

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H <sub>2</sub> O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		( 128 )	( 135 )	( 9 )	( 7 )	( 56 )	( 94 )	( 20 )	( 21 )	( 9 )
1 .22	144	134	9	3	51	94	16	25	5	7
	124	135	13	9	49	75	14	36	6	16
4 .88	( 134 )	( 135 )	( 11 )	( 6 )	( 50 )	( 85 )	( 15 )	( 31 )	( 6 )	( 12 )
	101	164	8	11	60	102	17	20	8	6
19 .5	141	148	14	5	74	74	15	20	6	16
	( 121 )	( 156 )	( 11 )	( 8 )	( 67 )	( 88 )	( 16 )	( 20 )	( 7 )	( 11 )
78 .1	138	150	11	6	57	97	20	28	3	7
	128	156	8	9	72	94	16	22	2	7
313	( 133 )	( 153 )	( 10 )	( 8 )	( 65 )	( 96 )	( 18 )	( 25 )	( 3 )	( 7 )
	142	128	7	5	47	84	11	25	8	6
1250	153	165	5	8	59	106	22	20	6	13
	( 148 )	( 147 )	( 6 )	( 7 )	( 53 )	( 95 )	( 17 )	( 23 )	( 7 )	( 10 )
5000	143	187	11	14	64	130	26	32	9	15
	150	146	7	5	67	130	31	24	7	8
Judgement	( 147 )	( 167 )	( 9 )	( 10 )	( 66 )	( 130 )	( 29 )	( 28 )	( 8 )	( 12 )
	82 *	176	6 *	6	34 *	113	9 *	15	11 *	6
Specific Mutagenicity	104 *	129	8 *	10	26 *	105	6 *	20	7 *	9
	( 93 *)	( 153 )	( 7 *)	( 8 )	( 30 *)	( 109 )	( 8 *)	( 18 )	( 9 *)	( 8 )
Positive Control	0 *	107 *	0 *	7 *	0 *	38 *	0 *	11 *	0 *	13 *
	0 *	101 *	0 *	3 *	0 *	60 *	0 *	17 *	0 *	5 *
	( 0 *)	( 104 *)	( 0 *)	( 5 *)	( 0 *)	( 49 *)	( 0 *)	( 14 *)	( 0 *)	( 9 *)
	-	-	-	-	-	-	-	-	-	-
	AF-2	2-AA	NaN <sub>3</sub>	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA
	( 617 )	( 1372 )	( 369 )	( 259 )	( 1010 )	( 917 )	( 483 )	( 517 )	( 348 )	( 245 )

Mutagenicity in Bacterial Test: Negative

IARC Evaluation : Group 2B

\* Growth inhibition was observed.

Experimental Data-2

(B9911-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution					Frame-shift				
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
H <sub>2</sub> O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 140 )	( 157 )	( 11 )	( 9 )	( 75 )	( 95 )	( 18 )	( 22 )	( 11 )	( 14 )
39 .5	172		14		61		6		9	
	( 174 )	( )	( 10 )	( )	( 57 )	( )	( 7 )	( )	( 9 )	( )
78 .1	163		14		59		17		9	
	( 175 )	( )	( 12 )	( )	( 58 )	( )	( 20 )	( )	( 11 )	( )
156	162		8		48		16		13	
	( 152 )	( )	( 8 )	( )	( 51 )	( )	( 15 )	( )	( 11 )	( )
313	123	191	8	10	69	70	14	38	8	9
	( 140 )	( 207 )	( 6 )	( 10 )	( 69 )	( 71 )	( 16 )	( 31 )	( 8 )	( 8 )
625	99 *	201	3 *	10	55 *	93	9 *	28	5 *	13
	( 98 *)	( 206 )	( 5 *)	( 12 )	( 53 *)	( 94 )	( 9 *)	( 22 )	( 8 *)	( 13 )
1250	66 *	176	2 *	14	24 *	85	14 *	28	6 *	13
	( 78 *)	( 199 )	( 4 *)	( 16 )	( 31 *)	( 88 )	( 12 *)	( 29 )	( 6 *)	( 10 )
2500		170		10		112		24		13
	( )	( 171 )	( )	( 10 )	( )	( 105 )	( )	( 24 )	( )	( 14 )
5000		101 *		6 *		51 *		9 *		15 *
	( )	( 100 *)	( )	( 7 *)	( )	( 45 *)	( )	( 10 *)	( )	( 12 *)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 ( 629 )	2-AA ( 1315 )	NaN <sub>3</sub> ( 401 )	2-AA ( 290 )	AF-2 ( 929 )	2-AA ( 800 )	AF-2 ( 442 )	2-AA ( 502 )	9-AA ( 370 )	2-AA ( 267 )

\* Growth inhibition was observed.