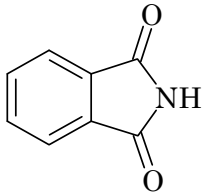


Experimental Data-1

(B0403-1/2)

Phthalimide (フタルイミド)

Chemical Name	: Phthalimide
Synonym	: <i>o</i> -Phthalimide <u>1,3-Dihydro-1,3-dioxoisindole</u> <u>1<i>H</i>-Isoindole-1,3(2<i>H</i>)-dione</u> <u>イソインドール-1,3-ジオン</u>
Molecular Weight	: 147.13
Melting Point	: 238°C[Merck]
Boiling Point	: -
Flashing Point	: -
Molecular Formular	: C ₈ H ₅ NO ₂
Chemical Structure:	
CAS No.	: 85-41-6
MITI No.	: (5)-79
ML No.	: -
Specified Chemical Substances:	-
Source of Substance:	Wako Pure Chemical Industries Ltd.
Lot No.	: PKQ1972
Purity	: 99.9%
Vehicle	: DMSO

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+
		(107)	(116)	(9)	(10)	(84)	(107)	(17)	(26)	(6)
1.22	105	117	7	9	63	91	15	18	3	6
	(108)	(125)	(7)	(10)	(70)	(96)	(16)	(19)	(4)	(6)
4.88	115	113	7	7	63	96	13	21	8	8
	(124)	(125)	(7)	(5)	(65)	(94)	(19)	(24)	(8)	(5)
19.5	92	135	10	6	78	96	13	20	10	14
	(96)	(123)	(10)	(7)	(82)	(102)	(18)	(14)	(7)	(12)
78.1	122	97	8	7	84	107	13	16	3	7
	(110)	(105)	(8)	(12)	(81)	(99)	(12)	(18)	(4)	(9)
313	115	115	10	5	71	117	15	25	7	9
	(118)	(128)	(10)	(11)	(76)	(111)	(16)	(24)	(5)	(9)
1250	98	128	8	11	81	81	8	17	5	11
	(110)	(120)	(10)	(10)	(75)	(78)	(9)	(18)	(8)	(14)
5000	106	111	8	11	62	77	11	21	11	11
	(102)	(119)	(8)	(11)	(62)	(66)	(11)	(22)	(9)	(13)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (666)	2-AA (1218)	NaN ₃ (322)	2-AA (212)	AF-2 (1444)	2-AA (814)	AF-2 (419)	2-AA (427)	9-AA (472)	2-AA (206)

Mutagenicity in Bacterial Test: Negative

IARC Evaluation : Not yet cited

Experimental Data-2

(B0403-2/2)

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(115)	(116)	(7)	(11)	(78)	(100)	(15)	(15)	(9)	(10)
	122	111	8	14	89	108	16	17	3	9
313	105 (114)	137 (124)	11 (10)	8 (11)	72 (81)	86 (97)	15 (16)	20 (19)	6 (5)	5 (7)
	97	120	11	11	71	102	13	17	9	7
625	104 (101)	130 (125)	9 (10)	14 (13)	67 (69)	91 (97)	22 (18)	11 (14)	15 (12)	11 (9)
	89	135	6	10	67	111	11	17	8	6
1250	102 (96)	105 (120)	10 (8)	9 (10)	46 (57)	91 (101)	10 (11)	23 (20)	7 (8)	5 (6)
	94	131	7	5	56	91	14	15	8	8
2500	92 (93)	127 (129)	3 (5)	7 (6)	56 (56)	92 (92)	14 (14)	13 (14)	6 (7)	8 (8)
	108	115	6	8	43	66	9	15	5	9
5000	107 (108)	112 (114)	7 (7)	10 (9)	52 (48)	61 (64)	18 (14)	16 (16)	5 (5)	2 (6)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (622)	2-AA (1120)	NaN ₃ (267)	2-AA (256)	AF-2 (1106)	2-AA (689)	AF-2 (397)	2-AA (469)	9-AA (458)	2-AA (192)