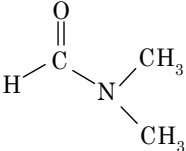


Experimental Data-1

(B0010-1/2)

N,N-Dimethylformamide (N,N-ジメチルホルムアミド)

Chemical Name	; <u>N,N-Dimethylformamide</u>	
Synonym	; <u>Formyldimethylamine</u>	
Molecular Weight	; 73.09	
Melting Point	; -61°C [Merck]	
Boiling Point	; 153°C [Merck]	
Flashing Point	; 67°C(o.c.)[Merck]	
Molecular Formula	; C ₃ H ₇ NO	
Chemical Structure:		
CAS No.	; 68-12-2	
METI No.	; (2)-680	
MHLW No.	; -	
Specified Chemical Substances	; -	
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.	
Lot No.	; GH01	
Purity	; 99.50%	
Vehicle	; Air	
Exposure Condition	; 37°C, 24hr	
Culture Condition	; 37°C, 24hr	

Mutagenicity in Bacterial Test: Negative

IARC Evaluation ; Group 3

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
Air	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(109)	(110)	(11)	(14)	(63)	(94)	(19)	(28)	(9)
0 .005	90	135	17	7	57	83	18	38	6	9
	(92)	(136)	(14)	(10)	(59)	(85)	(17)	(33)	(6)	(7)
0 .01	84	107	17	15	61	83	10	20	5	15
	(93)	(109)	(14)	(14)	(73)	(88)	(12)	(29)	(7)	(12)
0 .05	96	115	20	8	61	66	16	30	8	7
	(106)	(108)	(17)	(11)	(66)	(70)	(17)	(27)	(11)	(7)
0 .1	91	114	15	16	79	86	17	30	6	7
	(96)	(111)	(13)	(16)	(71)	(83)	(18)	(27)	(7)	(7)
0 .5	100	113	9	14	67	71	14	21	2	9
	(121)	(112)	(12)	(16)	(71)	(81)	(17)	(29)	(5)	(8)
1	102	108	13	15	55	85	14	24	2	11
	(97)	(115)	(11)	(13)	(52)	(86)	(13)	(23)	(5)	(10)
5	92	100	20	15	66	75	13	21	6	9
	(88)	(103)	(17)	(13)	(68)	(83)	(12)	(20)	(6)	(10)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (477)	2-AA (1476)	NaN ₃ (341)	2-AA (280)	AF-2 (522)	2-AA (1320)	AF-2 (552)	2-AA (442)	9-AA (359)	2-AA (247)

Experimental Data-2

(B0010-2/2)

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 _{uvrA} /pKM101		TA98		TA1537	
Air	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(100)	(108)	(12)	(12)	(57)	(75)	(15)	(23)	(10)	(11)
0 .05	104	121	14	15	56	74	22	16	9	6
	131	105	13	8	56	78	16	28	11	15
	(118)	(113)	(14)	(12)	(56)	(76)	(19)	(22)	(10)	(11)
0 .1	111	108	20	18	64	74	17	15	6	3
	93	107	13	21	78	77	11	20	6	11
	(102)	(108)	(17)	(20)	(71)	(76)	(14)	(18)	(6)	(7)
0 .2	123	112	13	14	62	91	9	20	11	13
	100	117	20	9	68	76	23	34	10	8
	(112)	(115)	(17)	(12)	(65)	(84)	(16)	(27)	(11)	(11)
0 .5	122	115	13	7	82	85	20	13	8	10
	121	122	10	15	71	90	14	23	5	7
	(122)	(119)	(12)	(11)	(77)	(88)	(17)	(18)	(7)	(9)
1	126	114	14	10	74	84	13	22	10	9
	117	106	10	15	67	90	9	21	6	14
	(122)	(110)	(12)	(13)	(71)	(87)	(11)	(22)	(8)	(12)
2	99	121	10	11	75	86	15	22	10	5
	112	121	15	13	82	85	11	26	5	10
	(106)	(121)	(13)	(12)	(79)	(86)	(13)	(24)	(8)	(8)
5	111	119	13	7	60	68	18	16	11	5
	117	107	20	17	67	72	18	22	6	8
	(114)	(113)	(17)	(12)	(64)	(70)	(18)	(19)	(9)	(7)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (501)	2-AA (1190)	NaN ₃ (337)	2-AA (260)	AF-2 (657)	2-AA (1112)	AF-2 (537)	2-AA (330)	9-AA (325)	2-AA (218)