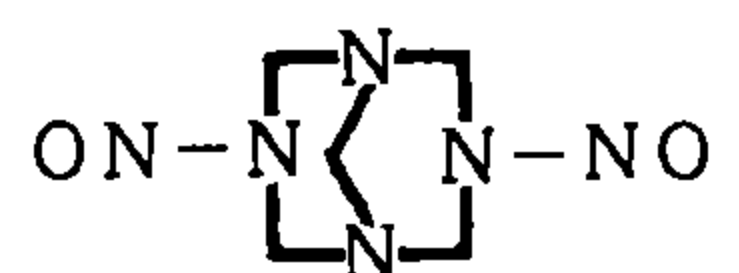


Dinitrosopentamethylenetetramine (ジニトロペンタメチレンテトラミン)

Experimental Data

Chemical Name:	Dinitrosopentamethylenetetramine
Synonym	1, 3, 5, 7-Tetraazabicyclo [3.3.1] nonane, 3, 7- dinitroso-
Molecular weight:	186.17
Melting point:	204~205°C
Boiling point:	°C
Chemical Structure	
CAS No :	101-25-7
MITI No :	(5)-1140, (5)-3908
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot.No. :	AW01
Purity:	%
Vehicle:	DMSO

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	24	200	0	—	0	0	0	0	0	0	0	0	—
	48	200	0	—	0	0	0.5	0	0	0.5	0.5	—	
Test Chemical													
	24	0.01	200	0	—	0	0	0	0	0	0	0	—
		0.02	200	0	—	0	1.0	2.5	0	0	3.5	3.5	—
		0.03	200	0.5	—	1.0	0	2.0	0	0	2.0	3.0	—
		0.04	200	0	—	1.5	1.5	0.5	0	0	2.0	3.5	—
		0.05	189	0.5	—	1.1	2.6	3.2	0	0	5.8	6.9	±
	48	0.01	200	0	—	0	0.5	0.5	0	0	1.0	1.0	—
		0.02	200	0.5	—	0	0	0.5	0	0	0.5	0.5	—
		0.03	200	4.5	—	0.5	0.5	3.0	0	0.5	4.0	4.5	—
		0.04	200	2.5	—	0.5	1.5	3.0	0	0	4.5	5.0	±
		0.05	174	0	—	1.1	0.6	2.9	0	0	3.4	4.6	—
Positive Control													
(MMC)	24	0.00005	200	0.5	—	2.0	9.5	42.0	0	0	45.5	46.0	+
	48	0.00005	200	1.0	—	3.5	10.5	59.5	0	0.5	63.5	64.0	+

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : G3

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
										Total		Judge	
					Gap	CTB	CTE	CSB	CSE	-G	+G		
DMSO	-	200	0	-	0.5	0.5	0.5	0	0	1.0	1.5	-	
	+	200	0	-	0	0.5	0.5	0	0	1.0	1.0	-	
Test Chemical													
	-	0.05	200	15.5	+	1.5	2.5	9.5	0	0.5	11.5	12.5	+
		0.1	200	1.5	-	7.5	28.5	66.0	0	0	68.5	68.5	+
		0.2				No observation for metaphase							
		0.3				No observation for metaphase							
	+	0.05	200	0.5	-	1.0	1.0	2.0	0	0	3.0	3.5	-
		0.1	200	16.0	+	0.5	0.5	10.0	0	0	10.5	10.5	+
		0.2	130	0	-	8.5	16.9	81.5	0	0	84.6	84.6	+
		0.3				No observation for metaphase							
Positive Control													
(B(a)P)	-		200	0	-	1.0	0	0.5	0	0	0.5	1.5	-
	+		200	0	-	5.5	7.5	51.5	0	0	53.5	55.5	+