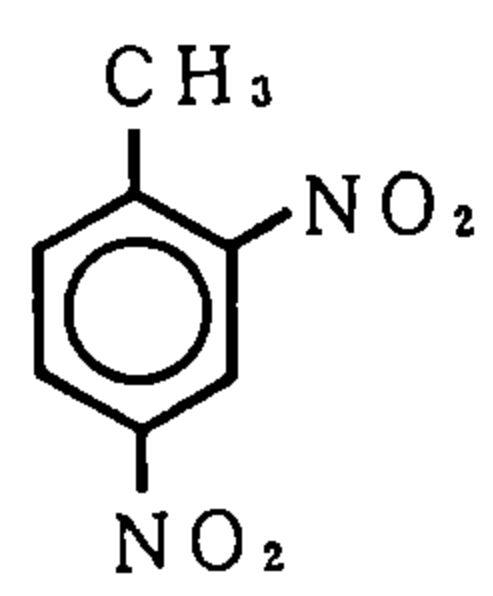


2,4-Dinitrotoluene (2,4-ジニトロトルエン)

Experimental Data

Chemical Name:	2,4-Dinitrotoluene
Synonym	Benzene, 1-methyl-2,4-dinitro-
Molecular weight:	182.1
Melting point:	70~71°C
Boiling point:	°C
Chemical Structure	
CAS No :	121-14-2
MITI No :	(3)-446
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot. No. :	FBR02
Purity:	%
Vehicle:	DMSO

	Treated Time (Hr)	Concentration (mg/ml)	No. of Metaphase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							
						Gap	CTB	CTE	CSB	CSE	Total		Judge
											-G	+G	
DMSO	24		200	0	—	0.5	0.5	0.5	0	0	1.0	1.5	—
	48		200	0	—	0	0	0	0	0	0	0	—
Test Chemical	24	0.05	200	0.5	—	0.5	0	0	0	0	0	0.5	—
		0.1	200	0	—	0	0	0	0	0	0	0	—
		0.2	200	0	—	1.0	2.0	0.5	0	0	2.5	3.5	—
		0.3	158	1.9	—	1.3	0	0	0	0.5	0.6	1.9	—
		0.4				No observation for metaphase							
	48	0.05	200	1.0	—	0	0.5	0	0	0	0.5	0.5	—
		0.1	200	0	—	0.5	0.5	0	0	0	0.5	1.0	—
		0.2	92	1.1	—	2.2	0	0	0	0	0	2.2	—
		0.3				No observation for metaphase							
		0.4				No observation for metaphase							
Positive Control (MMC)	24	0.00008	200	0.5	—	2.5	6.0	12.0	0	0	18.0	20.0	+
	48	0.00008	200	0	—	3.0	5.5	17.0	0	0	20.5	22.0	+

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- Phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								Judge
					Gap	CTB	CTE	CSB	CSE	Total			
										-G	+G		
DMSO	-	200	0	-	0.5	0.5	1.0	0	0	1.5	2.0	-	
	+	200	0	-	0.5	0	0.5	0	0	0.5	1.0	-	
<b>Test Chemical</b>													
-	0.5	200	1.0	-	1.0	0.5	0.5	0	0	1.0	2.0	-	
	1.0	200	0.5	-	2.0	0.5	2.0	0	0	2.5	4.5	-	
	2.0	200	0	-	2.5	4.0	4.5	0	0	8.0	10.5	+	
	3.0	200	0	-	2.5	3.5	6.5	0	0	10.0	12.0	+	
	4.0				No observation for metaphase								
	0.5	200	1.0	-	0	0.5	2.0	0	0	2.5	2.5	-	
	1.0	200	1.0	-	1.5	0.5	3.0	0	0	3.5	5.0	±	
	2.0	163	0	-	3.7	4.3	16.0	0	0	17.8	18.4	+	
	3.0	88	1.1	-	5.7	3.4	13.6	0	0	14.8	19.3	+	
	4.0				No observation for metaphase								
<b>Positive Control</b>													
(B(a)P)	-	0.008	200	0	-	0	0	0	0	0.5	0.5	-	
	+	0.008	200	0	-	2.0	2.5	14.5	0	0.5	16.5	18.5	+

Test chemical was precipitated on the plate at the concentration of 0.1, 0.2, 0.3 and 0.4mg/ml.