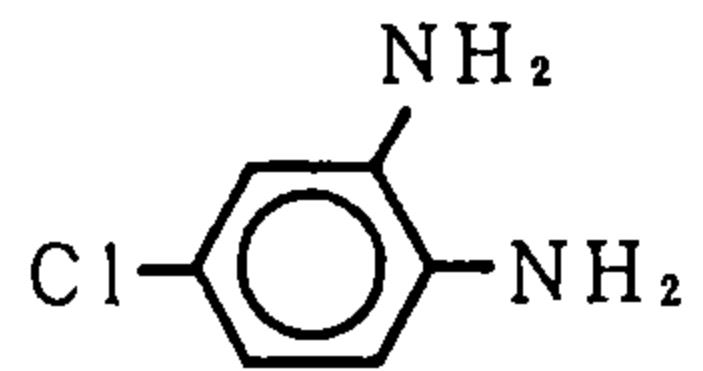


3,4-Diaminobenzene (3,4-ジアミノクロベンゼン)

Experimental Data

Chemical Name:	3,4-Diaminobenzene
Synonym	4-Chloro-1,2-phenylenediamine 4-Chloro-1,2-benzenediamine 1,2-Diamino-4-chlorobenzene 1,2-Benzenediamine, 4-chloro-
Molecular weight:	142.6
Melting point:	75.3°C (70-73°C)
Boiling point:	
Chemical Structure	
CAS No :	95-83-0
MITI No :	(3)-267
Source of Substance:	Wako Pure Chem. Ind. Ltd.
Lot. No:	DCJ5536
Purity:	%
Vehicle:	DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : G 2B

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	0.5	0	0	0	0.5	0.5	—
	48	200	0	—	0	0.5	0.5	0	0	1.0	1.0	—
Test Chemical												
	24	0.0025	200	0	—	1.5	0	0	0	0	1.5	—
		0.005	200	0.5	—	2.5	2.0	5.5	0	0	7.5	9.0 ±
		0.01	200	0	—	6.0	6.5	13.5	0	0	19.0	21.5 +
		0.02	200	0	—	6.5	11.0	22.5	0	0	29.5	31.0 +
		0.04				No observation for metaphase						
	48	0.0025	200	0	—	1.5	1.5	3.0	0	0	4.0	4.5 —
		0.005	200	0	—	5.5	6.5	17.0	0	0	22.5	23.5 +
		0.01	200	0.5	—	7.5	23.5	40.0	0	0	45.0	45.5 +
		0.02	200	0.5	—	13.0	22.0	74.5	0	0.5	77.5	79.0 +
		0.04				No observation for metaphase						
Positive Control												
(MMC)	24	0.00008	200	0	—	8.5	11.5	41.5	0.5	0	47.5	50.5 +
	48	0.00008	200	1.5	—	10.5	19.0	55.0	0	0	60.0	61.5 +

Experimental Data

S 9 with or without	Concentration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)									
					Gap	CTB	CTE	CSB		CSE		Total		Judge
								-G	+G	-G	+G			
DMSO	-	200	0.5	-	0	0	1.0	0	0	1.0	1.0	-		
	+	200	0.5	-	0	0	0.5	0	0	0.4	0.5	-		
Test Chemical														
-	0.0156	200	0.5	-	1.0	0.5	1.5	0	0	2.0	3.0	-		
	0.0313	200	0	-	0.5	0.5	7.0	0	0	7.0	7.0	±		
	0.0625	200	0	-	2.5	1.0	14.0	0	0	14.5	16.0	+		
	0.125	200	0	-	3.5	2.5	8.0	0	0	10.5	12.0	+		
	0.25				No observation for metaphase									
	+	0.0156	200	0	-	1.0	0	1.0	0	0	1.0	2.0	-	
		0.0313	200	0	-	0.5	1.5	2.0	0	0	2.5	2.5	-	
		0.0625	200	0	-	2.0	2.0	7.5	0	0	9.5	10.0	+	
		0.125	200	0	-	4.0	3.5	11.5	0	0	14.0	16.5	+	
		0.25				No observation for metaphase								
Positive Control (B(a)P)														
-	0.016	200	0	-	0	0	0.5	0	0	0.5	0.5	-		
+	0.016	200	0	-	5.5	8.0	30.0	0	0	35.0	36.5	+		