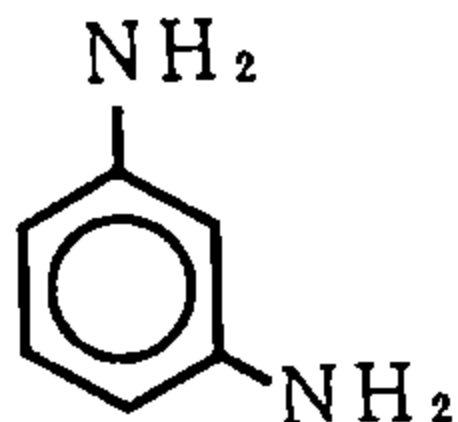


m-Phenylenediamine (m-フェニレンジアミン)

<b>Chemical Name:</b>	<u>m-Phenylenediamine</u>
<b>Synonym</b>	<u>1,3-Diaminobenzene</u> <u>1,3-Benzenediamine</u>
<b>Molecular weight:</b>	108.14
<b>Melting point:</b>	62-63°C
<b>Boiling point:</b>	284-287°C
<b>Chemical Structure</b>	
<b>CAS No :</b>	108-45-2
<b>MITI No :</b>	(3)-185
<b>ML No :</b>	4-(12)-368
<b>Source of Substance:</b>	Tokyo Kasei Kogyo Co., Ltd.
<b>Lot.No. :</b>	FB002
<b>Purity:</b>	%
<b>Vehicle:</b>	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : G 3

Experimental Data

	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	0.5	—	0	0	0	0	0	0	0	—
	48		200	0.5	—	0.5	0	0.5	0	0	0.5	1.0	—
<b>Test Chemical</b>													
	24	0.016	200	0.5	—	0	0.5	2.0	0	0	2.5	2.5	—
		0.031	200	0	—	0	4.0	1.5	0	0	5.5	5.5	±
		0.063	200	0	—	3.5	5.0	15.0	0	0	19.0	21.0	+
		0.13	200	0	—	2.0	8.5	22.5	0	0	29.0	30.0	+
		0.25				No observation for metaphase							
	48	0.016	200	0	—	2.0	5.0	7.5	0	0	12.5	14.0	+
		0.031	200	1.5	—	2.5	4.5	12.0	0	0	15.5	16.5	+
		0.063	200	3.0	—	5.0	8.0	11.0	0	0.5	17.5	20.5	+
		0.13	180	0.6	—	5.0	15.6	47.8	0	0	55.6	57.2	+
		0.25				No observation for metaphase							
<b>Positive Control</b>													
(MMC)	24	0.00008	200	0	—	2.5	10.5	41.5	0	0	45.5	46.0	+
	48	0.00008	200	0	—	3.5	10.5	28.5	0	0	33.5	34.5	+

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	Total		-G	+G	
								CSB	CSE			
DMSO	-	200	0.5	-	0	0.5	0	0	0	0.5	0.5	-
	+	200	0	-	0.5	0	0	0	0	0	0.5	-
<b>Test Chemical</b>												
-	0.13	200	0	-	1.0	0.5	1.5	0	0	2.0	3.0	-
	0.25	200	0.5	-	2.5	0.5	6.0	0	0	6.5	8.0	±
	0.5	200	0.5	-	1.0	6.0	8.0	0	0	14.0	15.0	+
	1.0	200	0.5	-	2.0	4.5	14.5	0	0	18.5	19.5	+
	2.0				No observation for metaphase							
-	0.13	200	0	-	0.5	0	1.0	0	0	1.0	1.5	-
	0.25	200	0.5	-	0.5	1.0	1.0	0	0	2.5	3.0	-
	0.5	200	0.5	-	1.5	2.0	13.0	0	0	14.5	15.0	+
	1.0				No observation for metaphase							
	2.0				No observation for metaphase							
<b>Positive Control</b>												
(B(a)P)	-	200	0	-	0	0.5	0.5	0	0	1.0	1.0	-
	+	200	0.5	-	4.0	6.5	24.5	0	0	26.0	28.5	+