Methylhydrazine (メチルヒドラジン)

Chemical Name: Methylhydrazine
Synonym
Molecular weight: 46.07
Melting point: -52.4℃
Boiling point: 87.5℃
Flashing point: <26.7℃

Chemical Structure

NH_2NHCH_3

CAS No : 60-34-4
MITI No : (2)-2385
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: AX01
Purity: %
Vehicle: Saline

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

	Treated Time (Hr)	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
Saline	24		200	0.5	−	0.5	0.5	0	0	0	0.5	1.0	−
	48		200	0	−	0	0	0	0	0	0.5	0.5	−
Test Chemical													
	24	0.0063	200	0	−	0.5	1.0	1.5	0	0	2.5	3.0	−
		0.013	200	0	−	0	2.0	2.5	0	0.5	5.0	5.0	±
		0.025	200	0	−	0.5	4.0	1.5	0.5	0	5.0	5.5	±
		0.05	200	0	−	1.0	3.0	1.0	0	0	4.5	5.0	±
		0.1	200	0	−	3.3	2.0	2.0	0	0	4.0	7.3	±
	48	0.0063	200	1.5	−	0	1.0	1.0	0	0	2.0	2.0	−
		0.013	200	1.0	−	0	0.5	3.5	0	0	3.5	3.5	−
		0.025	200	0.5	−	1.0	4.5	12.0	0	0	14.0	15.0	+
		0.05	200	0	−	1.0	10.0	23.5	0	0	30.5	31.0	+
		0.1	No observation for metaphase										
Positive Control													
(MMC)	24	0.00005	200	1.0	−	1.0	4.0	36.5	0	0	37.5	38.0	+
	48	0.00005	200	0	−	2.0	8.5	36.5	0	0	41.5	42.0	+

Experimental Data

S 9 with or without	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
Saline −		200	0	−	0	0	1.0	0	0	1.0	1.0	−
+		200	0	−	0	0	0	0	0	0	0	−
Test Chemical												
−	0.075	200	0	−	1.5	4.0	24.5	0	0	26.0	26.5	+
	0.15	200	1.5	−	1.5	8.5	23.5	0	0	30.0	31.0	+
	0.3				No observation for metaphase							
	0.6				No observation for metaphase							
	1.2				No observation for metaphase							
+	0.075	200	3.5	−	0	1.5	3.0	0	0	4.5	4.5	−
	0.15	200	2.0	−	0.5	1.0	7.5	0	0	8.5	9.0	±
	0.3	200	2.0	−	1.0	1.0	10.5	0	0	11.0	11.0	+
	0.6	200	0		0	3.8	34.6	0	0	35.6	35.6	+
	1.2				No observation for metaphase							
Positive Control (Ba(a)P) −		200	0	−	0	0.5	0	0	0	0.5	0.5	−
+		200	0	−	1.0	4.5	25.5	0	0	26.5	27.5	+