Hydrazine(anhydrous) (ヒドラジン(無水))

Chemical Name: Hydrazine(anhydrous)
Synonym
Molecular weight: 32.05
Melting point: 1.4℃
Boiling point: 113.5℃

Chemical Structure

H_2NNH_2

CAS No : 302-01-2
MITI No : (1)-374
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: AY01
Purity: %
Vehicle: Saline

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : G 2B

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	−	0	0	0	0	0	0	0	−
	48		200	0	−	0	0	0.5	0	0	0.5	0.5	−
Test Chemical													
	24	0.0025	200	0	−	0	0.5	0.5	0	0	1.0	1.0	−
		0.005	200	0	−	0.5	0.5	0.5	0	0	1.0	1.5	−
		0.01	200	0	−	1.5	4.0	2.0	0	0	5.5	7.0	±
		0.02	200	0	−	0.5	4.5	3.0	0	0	7.0	7.0	±
		0.04	200	0	−	0	2.0	1.0	0	0	3.0	3.0	−
	48	0.0025	200	0	−	0	0	0.5	0	0	0.5	0.5	−
		0.005	200	0	−	0.5	1.0	2.5	0	0	3.5	4.0	−
		0.01	200	0	−	0	1.5	3.5	0	0	5.0	5.0	±
		0.02	200	0	−	1.5	5.0	3.0	0	0	7.5	7.5	±
		0.04	200	0	−	3.4	3.4	6.7	0	0	9.0	10.7	+
Positive Control													
	24	0.00005	200	0	−	2.0	9.5	34.0	0	0	39.0	39.5	+
	48	0.00005	200	0	−	1.0	7.5	40.0	0	0.5	43.0	43.0	+

Metaphase was not observed at the concentration of 0.08 mg/ml.

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	0.5	−	0	0	0	0	0	0	0	−
+		200	0	−	0	0	0	0	0	0	0	−
Test Chemical												
−	0.05	200	0	−	0.5	3.0	6.5	0	0	9.0	9.0	±
	0.1	200	0.5	−	1.0	7.0	15.5	0	0	18.5	19.0	+
	0.2				No observation for metaphase							
	0.3				No observation for metaphase							
	0.4				No observation for metaphase							
+	0.05	200	0.5	−	0.5	0	1.0	0	0	1.0	1.5	−
	0.1	200	1.0	−	0	1.0	4.0	0	0	5.0	5.0	±
	0.2	200	0.5	−	1.0	4.0	30.5	0	0	31.5	32.0	+
	0.3	200	0	−	1.5	8.0	27.0	0	0	31.5	32.0	+
	0.4				No observation for metaphase							
Positive Control												
(B(a)P)−		200	1.0	−	1.0	0.5	0.5	0	0	0.5	1.5	−
+		200	0	−	2.0	3.0	35.5	0	0	38.0	39.5	+