Dichloroacetic acid (ジクロロ酢酸)

Chemical Name: Dichloroacetic acid
Synonym Acetic acid, dichloro-
Molecular weight: 128.9
Melting point: -4~9.7℃(9-11℃)
Boiling point: 193～194℃
Flashing point: >110℃

Chemical Structure

$C\ell_2CHCOOH$

CAS No : 79-43-6
MITI No : (2)-1161
ML No : 2-(4)-657
Source of Substance: Wako Pure Chemical Ind., Ltd.
Lot.No.: KPF0562
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	−	0.5	0	0.5	0	0	0.5	1.0	−
	48		200	0	−	0	0	0	0	0	0	0	−
Test Chemical													
	24	0.25	200	1.0	−	0	0	0	0	0	0	0	−
		0.5	200	1.0	−	0	0	0	0	0	0	0	−
		1.0	200	0	−	0	0	3.5	0	0	3.5	3.5	−
		1.5	200	0.5	−	1.0	1.5	13.0	0	0	13.5	14.0	+
		2.0	130	0	−	32.3	43.1	76.5	0	0	90.0	90.0	+
	48	0.25	200	0	−	0	0	0	0	0.5	0.5	0.5	−
		0.5	200	0.5	−	0	0	0	0	0	0	0	−
		1.0	200	0	−	0	0	0	0	0	0	0	−
		1.5	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
		2.0	200	6.5	±	7.0	11.0	45.0	0	0	48.5	48.5	+
Positive Control													
(MMC)	24	0.00005	200	1.0	−	1.5	7.0	39.0	0	0.5	43.0	44.5	+
	48	0.00005	200	1.0	−	1.5	4.0	54.5	0.5	0	55.5	55.5	+

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	1.5	−	0.5	0.5	0	0	0	0.5	1.0	−
Test Chemical												
−	1.5	200	0.5	−	1.5	0.5	1.0	0	0	1.5	3.0	−
	2.0	200	1.5	−	2.0	1.0	9.0	0	0	9.5	11.5	+
	2.5	200	1.0	−	1.5	5.5	22.0	0	0	24.5	25.5	+
	3.0	200	0.5	−	7.0	11.0	52.0	0	0.5	53.5	54.0	+
	3.5				No observation for metaphase							
+	1.5	200	1.5	−	0	0	0	0	0	0	0	−
	2.0	200	1.0	−	1.0	0	0.5	0	0	0.5	1.5	−
	2.5	200	2.5	−	3.0	3.5	16.5	0	0	17.5	18.5	+
	3.0				No observation for metaphase							
	3.5				No observation for metaphase							
Positive Control												
(B(a)P)−		200	0	−	0	0	0.5	0	0	0.5	0.5	−
+		200	0	−	1.5	2.0	23.5	0	0	24.5	25.5	+