

Bromoacetic acid (7口キ酢酸)

Experimental Data

Chemical Name:	Bromoacetic acid
Synonym	Acetic acid, bromo-
Molecular weight:	138.95
Melting point:	(49-51°C)
Boiling point:	208°C
Flashing point:	>110°C
Chemical Structure	
BrCH ₂ COOH	
CAS No :	79-08-3
MITI No :	(2)-2634
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot. No. :	FBX01
Purity:	%
Vehicle:	Saline

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							Judge
					Gap	CTB	CTE	CSB	CSE	Total		
										-G	+G	
Saline												
24		200	0.5	—	0.5	0.5	0	0	0	0.5	1.0	—
48		200	0	—	0	0	0.5	0	0	0.5	0.5	—
Test Chemical												
24	0.0005	200	0	—	0	0	0.5	0	0	0.5	0.5	—
	0.001	200	0	—	0.5	0	0.5	0	0	0.5	1.0	—
	0.002	200	0	—	0.5	0.5	1.0	0	0	1.5	1.5	—
	0.003	200	0.5	—	0	2.5	1.5	0	0	3.5	3.5	—
	0.004	200	0	—	0	2.0	3.0	0	0	5.0	5.0	±
48	0.0005	200	0	—	0	0	0	0	0	0	0	—
	0.001	200	0.5	—	0.5	0	1.0	0	0	1.0	1.5	—
	0.002	200	1.0	—	0.5	0	0	0	0	0	0.5	—
	0.003	200	1.5	—	0.5	1.5	2.0	0	0	3.5	3.5	—
	0.004	200	1.5	—	2.0	4.5	7.5	0	0	11.0	12.5	+
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	+

Metaphase was not observed at the concentration of 0.005 mg/ml.

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

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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	CSB	CSE	Total		
										-G	+G	
Saline	-	200	0	-	0	0	1.0	0	0	1.0	1.0	-
	+	200	0	-	0	0	0	0	0	0	0	-
Test Chemical												
-	0.005	200	0	-	0.5	1.5	2.0	0	0.5	4.0	4.0	-
	0.01	147	0	-	2.0	14.3	21.8	0	0	30.6	30.6	+
	0.015				No observation for metaphase							
	0.02				No observation for metaphase							
	0.025				No observation for metaphase							
	+	0.005	200	0	-	0	1.0	0.5	0	0.5	2.0	2.0
+	0.01	200	0	-	0	0.5	3.0	0	0	3.0	3.0	-
	0.015	200	0	-	1.5	4.0	16.0	0	0	18.5	19.5	+
	0.02	135	0	-	3.0	21.5	57.8	0	0	62.2	62.2	+
	0.025				No observation for metaphase							
	Positive Control											
(B(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	27.0	+