

2-Bromo-2-methylpropionic acid (2-ブロモ-2-メチルプロピオニ酸)

Experimental Data

Chemical Name: Synonym Molecular weight: Melting point: Boiling point: Flashing point:	Treated Time (Hr)	Concen- tration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)						Total	Judge	
						Gap	CTB	CTE	CSB	CSE	-G	+G		
2-Bromo-2-methylpropionic acid α -Bromoisobutyric acid	Saline 24	200	0	—		0	0.5	0.5	0	0	1.0	1.0	—	
	48	200	0	—		0	0	0	0	0	0	0	—	
Chemical Structure	Test Chemical													
<chem>BrC(C(=O)O)CH3</chem>	24	0.4	200	0	—	0	0	0.5	0	0	0.5	0.5	—	
		0.8	200	0	—	0.5	0.5	7.0	0	0.5	7.5	7.5	±	
		1.2	200	0.5	—	2.0	8.5	35.0	0	0	40.5	40.5	+	
		1.6	200	1.0	—	18.5	49.0	83.5	0	0	87.0	87.0	+	
		2.0				No observation for metaphase								
CAS No : 2052-01-9	48	0.4	200	0.5	—	0.5	0	0.5	0	0	0.5	1.0	—	
		0.8	200	1.0	—	0	0	0.5	0	0	0.5	0.5	—	
		1.2	200	0.5	—	0.5	0	3.0	0	0	3.0	3.5	—	
Source of Substance: Fluka Chemical AG						3.5	7.0	39.0	0	0.5	43.5	44.5	+	
Lot. No.: 252812 889						No observation for metaphase								
Purity: %	Positive Control													
Vehicle: Saline	(MMC)	24	0.00005	200	0.5	—	1.5	5.0	34.0	0	0	35.0	36.0	+
Judgement for		48	0.00005	200	1.0	—	2.5	10.0	61.0	0	0.5	63.5	63.5	+
Chromosomal Aberration in CHL: Positive														

IARC Evaluation : not yet cited

Experimental Data

S 9 with or without	Concen- tration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Cell with Structural Chromosome Aberration (%)								<u>Total</u> <u>-G</u> <u>+G</u>	Judge	
				Judge	Gap	CTB	CTE	CSB	CSE	-G	+G			
Saline	—	200	1.0	—	0	0	0.5	0	0	0.5	0.5	—	—	
	+	200	0	—	0	0	0	0	0	0	0	0	—	
Test Chemical														
	—	0.25	200	1.0	—	0.5	0	0.5	0	0	0.5	1.0	—	
		0.50	200	2.5	—	0	0	1.5	0	0	1.5	1.5	—	
		1.0	200	0	—	1.0	2.0	4.0	0	0	5.5	5.5	±	
		2.0	200	0.5	—	9.0	12.0	70.5	0	0	71.5	72.5	+	
		3.0			No observation for metaphase									
	+	0.25	200	0	—	0	0.5	0	0	0	0.5	0.5	—	
		0.50	200	1.0	—	0	0	1.5	0	0	1.5	1.5	—	
		1.0	200	1.0	—	1.5	3.0	23.0	0	0	25.0	25.5	+	
		2.0			No observation for metaphase									
		3.0			No observation for metaphase									
Positive Control														
	(B(a)P) —		200	1.5	—	1.0	0.5	0	0	0	0.5	1.5	—	
	+		200	0.5	—	3.5	2.0	43.0	0	0	43.0	43.5	+	