

Allylbromide (アリルブロミド)

Experimental Data

Chemical Name:	Allylbromide
Synonym	3-Bromo-1-propene 1-Propene, 3-bromo-
Molecular weight:	120.98
Melting point:	-119°C
Boiling point:	71.3°C (70-71°C)
Flashing point:	-20°C
Chemical Structure	
	$\text{CH}_2=\text{CH}-\text{CH}_2\text{Br}$
CAS No :	106-95-6
MITI No :	(2)-107, (9)-129
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot.No. :	FAV01
Purity:	%
Vehicle:	DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	24	200	0	—	0	0	0	0	0	0	0	0	—
	48	200	0	—	0	0	0	0	0	0.5	0.5	—	
Test Chemical	24	0.01	200	0.5	—	0	0	0	0	0	0	0	—
		0.02	200	1.5	—	0.5	0	4.0	0	0	4.0	4.5	—
		0.03	200	2.0	—	2.5	3.0	15.0	0	0.5	17.0	18.0	+
		0.04				No observation for metaphase							
		0.05				No observation for metaphase							
	48	0.01	200	0.5	—	0	0	0.5	0	0	0.5	0.5	—
		0.02	200	1.0	—	0	0.5	0.5	0	0	0.5	0.5	—
		0.03	200	3.0	—	2.0	2.0	5.5	0	0.5	7.5	8.5	±
		0.04	200	2.5	—	2.0	2.5	8.0	0	0.5	11.0	11.5	+
		0.05				No observation for metaphase							
Positive Contr (MMC)	24	0.00005	200	0.5	—	2.0	9.5	42.0	0	0	45.5	46.0	+
	48	0.00005	200	1.0	—	3.5	10.5	59.5	0	0.5	63.5	64.0	+

Experimental Data

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	
DMSO	-	200	0.5	-	0	0.5	1.0	0	0	1.5	1.5	-
	+	200	0	-	0	0	0.5	0	0	0.5	0.5	-
Test Chemical												
-	0.02	200	0	-	0	0	1.0	0	0	1.0	1.0	-
	0.06	200	4.5	-	1.0	2.5	8.5	0	1.0	10.5	10.5	+
	0.10	142	2.1	-	1.4	9.9	18.3	0	0.7	26.8	27.5	+
	0.14				No observation for metaphase							
+	0.02	200	2.0	-	0	0	1.0	0	0	1.0	1.0	-
	0.06	200	1.5	-	0.5	1.5	5.0	0	0	5.5	5.5	±
	0.10	200	3.0	-	0	1.0	3.5	0	0	4.5	4.5	-
	0.14				No observation for metaphase							
Positive Control												
(B(a)P)	-	200	0	-	0.5	0.5	0	0	0	0.5	1.0	-
	+	200	0	-	3.0	5.0	43.0	0	0	45.0	45.5	+