

Chemical Name ; <u>2-Bromopropane</u>	Treatment			Polyploid		Cell with Structural Chromosome Aberration (%)										
	Substance	Time (h)	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judgement	Gap		Chromatid		Chromosome		Others	Total		Judgement
							g	ctb	cte	csb	cse	-g		+g		
Synonym ; <u>Isopropyl bromide</u> <u>Propane, 2-bromo-</u> <u>イソプロピルブロミド</u>	DMSO	24	1.0%	200	0	-	0	0	1	0	0	0	1	1	-	
Molecular Weight ; 122.99	DMSO	48	1.0%	200	0.5	-	0	0	0	0	0	0	0	0	-	
Melting Point ; -89°C[Aldrich]	Test Chemical	24	0.4	200	1	-	0	0.5	2	0	0	0	2.5	2.5	-	
Boiling Point ; 59°C[Aldrich]			0.6	200	4.5	-	0	2	3.5	0	0	0	5	5	±	
Flashing Point ; 19°C[Aldrich]			0.8	200	1.5	-	0.5	1.5	7	0	0.5	0	9	9.5	±	
Molecular Formula ; C ₃ H ₇ Br			1.0	200	1	-	0	2	10.5	0	0	0	12.5	12.5	+	
Chemical Structure			1.2	200	0.5	-	0	5.5	14	0	0	0	19	19	+	
CH ₃ — CH — CH ₃ Br		48	0.2	200	0.5	-	0	0.5	0	0	0	0	0.5	0.5	-	
CAS No. ; 75-26-3			0.4	200	0	-	0	0.5	5	0	0	0	5.5	5.5	±	
MITI No. ; (2)-76			0.6	200	0	-	0	4.5	17.5	0	0	0	21.5	21.5	+	
Specified Chemical Substances ; -			0.8	200	0.5	-	0	5.5	33	0	0	0	36.5	36.5	+	
Source of Substance; Wako Jyunyaku Kogyo Co., Ltd.			1.0	200	0	-	0.5	8	47.5	0	1	0	51	51	+	
Lot No. ; TWE1628	Positive Control [MMC]	24	0.00004	200	0	-	0	6	19	1	0	25	25	+		
Purity ; 97.0%		48	0.00004	200	0.5	-	0	9.5	21	0	0	27	27	+		
Vehicle ; DMSO																

Judgement for Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; not yet cited

※ There was no obserbation for methaphase with treatment of 24Hr and 48Hr at 1.3mg/ml.

※ The culture bottle was sealed and cultured rotating after adding the test substance.

Experimental Data with Metabolic Activation

(C9604-2/2)

Treatment			No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
Substance	S9 mix	Concent- ration (mg/ml)		%	Judge- ment	Gap g	Chromatid		Chromosome		Others	Total		Judge- ment
							ctb	cte	csb	cse		-g	+g	
DMSO	-	1.0%	200	0.5	-	0	0	0	0	0	0	0	0	-
	+	1.0%	200	1	-	0	0	0	0	0	0	0	0	-
Test Chemical	-	0.5	200	0	-	0	1	0	0	0	0	1	1	-
		1.0	200	0.5	-	0	0.5	1	0	0	0	1.5	1.5	-
		2.0	200	2	-	0.5	0.5	9	0	0	0	9	9.5	±
		4.0	184	0	-	0	3.8	21.2	0	0	0	23.4	23.4	+
		8.0	No obserbation for metaphase											
	+	0.5	200	0.5	-	0	0.5	0	0	0	0	0.5	0.5	-
		1.0	200	0.5	-	0	0.5	0.5	0	0	0	1	1	-
		2.0	200	1.5	-	0	1.5	8.5	0	0	0	9.5	9.5	±
		4.0	200	0.5	-	0	1.5	9.5	0	0	0	11	11	+
		8.0	No obserbation for metaphase											
Positive Control [B[a]P]	-	0.01	200	2.5	-	0	0	0	0	0	0	0	-	
	+	0.01	200	3.5	-	0	6.5	20	0	0	0	22	22	+

※ Test conditions: Treatment time ; 6h, Recovery time ; 18h

※ The culture bottle was sealed and cultured rotating after adding the test substance.