

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	-	
		48	1.0%	200	0.5	-	0	0	0	0	0	0	0	0	-	
Molecular Weight ; 122.99 Melting Point ; -89°C[Aldrich] Boiling Point ; 59°C[Aldrich] Flashing Point ; 19°C[Aldrich] Molecular Formula ; C <sub>3</sub> H <sub>7</sub> Br Chemical Structure  $\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH}_3 \\   \\ \text{Br} \end{array}$ CAS No. ; 75-26-3 MITI No. ; (2)-76 Specified Chemical Substances ; - Source of Substance; Wako Jyunyaku Kogyo Co., Ltd. Lot No. ; TWE1628 Purity ; 97.0% Vehicle ; DMSO	Test Chemical	24	0.4	200	1	-	0	0.5	2	0	0	0	2.5	2.5	-	
			0.6	200	4.5	-	0	2	3.5	0	0	0	5	5	±	
			0.8	200	1.5	-	0.5	1.5	7	0	0.5	0	9	9.5	±	
			1.0	200	1	-	0	2	10.5	0	0	0	12.5	12.5	+	
			1.2	200	0.5	-	0	5.5	14	0	0	0	19	19	+	
	48	0.2	200	0.5	-	0	0.5	0	0	0	0	0.5	0.5	-		
		0.4	200	0	-	0	0.5	5	0	0	0	5.5	5.5	±		
		0.6	200	0	-	0	4.5	17.5	0	0	0	21.5	21.5	+		
		0.8	200	0.5	-	0	5.5	33	0	0	0	36.5	36.5	+		
		1.0	200	0	-	0.5	8	47.5	0	1	0	51	51	+		
Positive Control [MMC]	24	0.00004	200	0	-	0	6	19	1	0	0	25	25	+		
	48	0.00004	200	0.5	-	0	9.5	21	0	0	0	27	27	+		

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, Rcovery time ; 18h

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