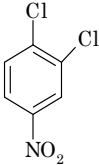


1,2-Dichloro-4-nitrobenzene (1,2-ジクロロ-4-ニトロベンゼン)

Experimental Data (Short treatments)

Chemical Name ; <u>1,2-Dichloro-4-nitrobenzene</u> Synonym ; <u>3,4-Dichloronitrobenzene</u> <u>3,4-Dichloro-1-nitrobenzene</u>	Treatment Time (h)	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)					
				No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total		
					ctb	cte	csb	cse										
Molecular Weight ; 192.00 Melting Point ; 42-43 °C[CHCD] Boiling Point ; 255-256 °C[CHCD] Flashing Point ; 123.9°C[Aldrich] Molecular Formula ; C ₆ H ₃ Cl ₂ NO ₂ Chemical Structure ;  CAS No. ; 99-54-7 METI No. ; (3)-455 MHLW No. ; - Specified Chemical Substances ; - Source of Substance; Wako Pure Chemical Industries, Ltd. Lot No. ; SKJ1382 Purity ; 99.1% Vehicle ; Dehydrated DMSO	6-18	-	[DMSO] (1%)	200	0	0	0	0	0	0	0	100	200	0	0	0		
			0.04	200	0	0	0	0	0	0	0	0	88	203	1.5	0	1.5	
			0.08	200	0	0.5	0	0	0	0	0.5	0	82	207	3.4	0	3.4	
			0.12	200	0.5	0	0	0	0	0	0.5	0	74	203	1.5	0	1.5	
			0.16†	200	0.5	1.5	0	0	0	0	2	0	56	214	6.5	0	6.5	
			0.20†	TOX									33	TOX				
			[MMC] (0.00012)	200	12	33.5	0	0	0	0	39	3	-	200	0	0	0	
	6-18	+	[DMSO] (1%)	200	0	0.5	0	0	0	0.5	0	100	201	0.5	0	0.5		
			0.02	200	0	0	0	0	0	0	0	89	201	0.5	0	0.5		
			0.04	200	0.5	2	0	0	0	2	0	83	202	1	0	1		
			0.08	200	2	10.5	0	0	0	11.5	0.5	69	203	1.5	0	1.5		
			0.12	200	7.5	22	0	0	0	22.5	1	61	202	1	0	1		
			0.16†	200	17	35	0	0	0	40	2.5	58	201	0.5	0	0.5		
			[B[a]P] (0.01)	200	6.5	27.5	0	0	0	31.5	0.5	-	202	1	0	1		

Judgement for Chromosomal Aberration in CHL/IU ; Positive

※ Test conditions: S9mix ; 5%, Treatment time ; 6h, Recovery time ; 18h

† The precipitation of test chemical was observed in the culture medium.

IARC Evaluation ; not yet cited

Experimental Data without Metabolic Activation (Continuous treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)				
		No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total	
			ctb	cte	csb	cse									
24-0	[DMSO] (1%)	200	0	0	0	0	0	0	1.5	100	202	1	0	1	
	0.03	200	0.5	0	0	0	0	0.5	0.5	75	207	3.4	0	3.4	
	0.06	200	0.5	0.5	0	0	0	1	0.5	68	207	3.4	0	3.4	
	0.12	200	2	1	0	0	0	2.5	1	52	202	1	0	1	
	0.18†	200	13.5	7.5	0	0	0	19	2	35	201	0.5	0	0.5	
	0.24†	TOX								21	TOX				
	[MMC] (0.00004)	200	7.5	27	0	0	0	33	1.5	—	200	0	0	0	
48-0	[DMSO] (1%)	200	0.5	1	0	0	0	1	0	100	201	0.5	0	0.5	
	0.03	200	0.5	0	0	0	0	0.5	0	66	201	0.5	0	0.5	
	0.06	200	0.5	2	0	0	0	2.5	0	53	204	2	0	2	
	0.12	200	2	4	0	0.5	0	5	0	43	219	8.7	0	8.7	
	0.18†	TOX								24	TOX				
	0.24†	TOX								16	TOX				
	[MMC] (0.00004)	200	15.5	40	0	0.5	0	48.5	0	—	202	1	0	1	

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h

† The precipitation of test chemical was observed in the culture medium.