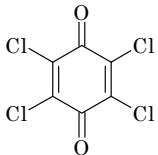


2,3,5,6-Tetrachloro-1,4-benzoquinone

(2,3,5,6-テトラクロロ-1,4-ベンゾキノン)

Experimental Data (Short treatments)

Chemical Name : <u>2,3,5,6-Tetrachloro-1,4-benzoquinone</u> Synonym : <u>Chloranil</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 : 245.88 Melting Point : 290°C[Merck] Boiling Point : - Flashing Point : - Molecular Formula : C ₆ Cl ₄ O ₂ Chemical Structure :  CAS No. : 118-75-2 METI No. : (3)-1007 MHLW No. : - Specified Chemical Substances ; - Source of Substance; Wako Pure Chemical Industries, Ltd. Lot No. : CKH9793 Purity : 100.0% Vehicle : Dehydrated DMSO	6-18	-	[DMSO] (1%)	200	0	1	0	0	0	1	0	100	200	0	0	0		
			0.004	200	0.5	0	0	0	0	0	0.5	0.5	103	200	0	0	0	
			0.008	200	0.5	3	0	0	0	0	3	0.5	100	200	0	0	0	
			0.012	200	4.5	10	0	0	0	0	12.5	1.5	67	206	2.9	0	2.9	
			0.016	82	6.1	23.2	0	0	0	0	24.4	1.2	46	83	1.2	0	1.2	
			0.02	TOX									53	TOX				
			[MMC] (0.00012)	200	12	56.5	0	0	0	0	58.5	1	-	200	0	0	0	
	6-18	+	[DMSO] (1%)	200	0	0	0	0.5	0	0.5	0	100	201	0.5	0	0.5		
			0.008	200	0	0	0	0	0	0	0	76	200	0	0	0		
			0.012	200	1.5	1	0	0	0	2.5	0	74	201	0.5	0	0.5		
			0.016	200	0.5	2.5	0	0	0	2.5	0.5	71	213	5.6	0.5	6.1		
			0.02	200	8	23.5	0	0	0	26.5	2	63	222	5	5	9.9		
			0.024	200	14.5	38.5	0	0	0	45	3	53	224	3.1	7.6	10.7		
			[B[a]P] (0.01)	200	3.5	23	0	0	0	26.5	0.5	-	201	0.5	0	0.5		

Judgement for Chromosomal Aberration in CHL/IU ; Positive

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

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	1	0	0	0	1	0	100	200	0	0	0
	0.006	200	0.5	0.5	0	0	0	0.5	0.5	94	204	2	0	2
	0.009	200	1.5	2.5	0	0	0	3.5	0.5	84	203	1.5	0	1.5
	0.012	200	6.5	11.5	0	0	0	15	1.5	72	213	6.1	0	6.1
	0.015	TOX								49	TOX			
	0.018	TOX								51	TOX			
	[MMC] (0.00004)	200	10	29.5	0	0	0	38	0	—	200	0	0	0
48-0	[DMSO] (1%)	200	0	0	0	0	0	0	0	100	201	0.5	0	0.5
	0.006	200	1	0	0	0	0	1	0	103	202	1	0	1
	0.009	200	0	0.5	0	0	0	0.5	0.5	87	202	1	0	1
	0.012	200	0.5	1.5	0	0	0	2	0	53	209	4.3	0	4.3
	0.015	TOX								28	TOX			
	0.018	TOX								32	TOX			
	[MMC] (0.00004)	200	10.5	49	0	0	0	54.5	0	—	200	0	0	0

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