

N,N-Dimethylaniline (N,N-ジメチルアニリン)Experimental Data (Short treatments)

Chemical Name : <u>N,N-Dimethylaniline</u>	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)					
			No. of Metaphase	Chromatid ctb cte		Chromosome csb cse		Others	Total			No. of Metaphase	Poly-ploid	Others	Total		
Synonym : <u>N,N-Dimethylphenylamine</u> <u>(Dimethylamino)benzene</u> <u>N,N-Dimethylbenzenamine</u>	6-18	-	[DMSO] (1%)	200	0	1.0	0	0	0	1.0	0.5	100	200	0	0	0	
			0.2	200	0.5	0	0	0	0	0	0.5	0.5	94	205	2.4	0	2.4
			0.4†	200	0	0	0	0	0	0	0	0.5	91	206	1.9	1.0	2.9
			0.6†	200	1.0	2.0	0	0	0	0	3.0	0.5	90	209	3.8	0.5	4.3
			0.8†	200	0	1.5	0	0	0	0	1.5	0	73	206	2.9	0	2.9
			1.0†	TOX									31	TOX			
			[MMC] (0.00012)	200	9.5	39.5	0	0	0	0	45.0	0	—	204	2.0	0	2.0
	6-18	+	[DMSO] (1%)	200	0	0.5	0	0	0	0.5	0.5	100	200	0	0	0	
			0.02	200	0	0	0	0	0	0	0	99	202	1.0	0	1.0	
			0.03	200	0	0.5	0	0	0	0	0.5	0.5	90	208	3.8	0	3.8
			0.04	200	0.5	6.5	0	0	0	0	7.0	0	88	215	7.0	0	7.0
			0.05	200	3.5	14.5	0	0	0	0	17.5	1.5	78	225	11.1	0	11.1
			0.06	200	13.0	62.5	0	0	0	0	66.0	0.5	71	202	1.0	0	1.0
			[B[a]P] (0.01)	200	2.5	45.5	0	0	0	0	46.5	0.5	—	200	0	0	0

Judgement for  
Chromosomal Aberration in CHL/IU ; Positive

IARC Evaluation : Group 3

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

† The precipitation of test chemical was observed in the culture medium at initiation, however, after the treatment the test chemical dissolved.

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	1.0	1.5	0	0	0	2.5	0	100	202	1.0	0	1.0
	0.1	200	4.0	2.0	0	0	0	5.5	0	92	205	2.4	0	2.4
	0.2	200	3.5	4.5	0	0.5	0	7.0	0.5	85	202	1.0	0	1.0
	0.4†	200	4.0	9.0	0	0	0	11.5	0.5	80	204	2.0	0	2.0
	0.6†	200	6.5	24.0	1.0	0	0	27.5	1.5	70	201	0.5	0	0.5
	0.8†	136	10.3	16.2	0	0	0	23.5	0.7	40	136	0	0	0
	[MMC] (0.00004)	200	23.0	57.0	0.5	0	0	64.5	1.5	—	200	0	0	0
48-0	[DMSO] (1%)	200	1.0	0.5	0	0	0	1.5	0.5	100	202	1.0	0	1.0
	0.4†	200	2.0	0	0	0	0	2.0	0	93	200	0	0	0
	0.6†	200	1.0	2.0	0	0.5	0	3.5	0	78	201	0.5	0	0.5
	0.8†	200	0.5	4.5	0	1.0	0	5.5	1.0	27	202	1.0	0	1.0
	1.0†	TOX								21	TOX			
	[MMC] (0.00004)	200	27.5	66.5	0	0	0	73.5	1.5	—	203	1.5	0	1.5

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

† The precipitation of test chemical was observed in the culture medium at initiation, however, after the treatment the test chemical dissolved.