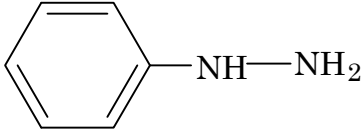


Chemical Name	; <u>Phenylhydrazine</u>	
Synonym	; <u>Hydrazinobenzene</u>	
Molecular Weight	; 108.14	
Melting Point	; 19.6°C [CHCD]	
Boiling Point	; 243.5°C(decomposition)[CHCD]	
Flashing Point	; 88 °C [CHCD]	
Molecular Formula	; C ₆ H ₈ N ₂	
Chemical Structure		
CAS No.	; 100-63-0	
MITI No.	; (3)-470	
ML No.	; -	
Specified Chemical Substances	; -	
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.	
Lot No.	; FGF01	
Purity	; 99.8%	
Vehicle	; Saline	

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
	Time (h)	Concentration (mg/ml)		%	Judgement	Gap g	Chromatid		Chromosome		Others	Total		Judgement
							ctb	cte	csb	cse		-g	+g	
Saline	24	10%	200	1.5	-	0.5	0	0	0	0	0	0	0.5	-
	48	10%	200	0	-	0	0.5	0	0	0	0	0.5	0.5	-
Test Chemical	24	0.0025	200	0	-	0	2.5	0	0	0	0	2.5	2.5	-
		0.0050	200	0.5	-	0	1	4	0	0	0	4.5	4.5	-
		0.010	200	1.5	-	1	9	9	0.5	0	0	16.5	17.5	+
		0.015	200	0	-	0	3.5	2.7	0	0	0	6.2	6.2	±
		0.020	200	0	-	2.5	3.8	0	0	0	0	3.8	5.1	±
	48	0.0020	200	0	-	0	0	0	0	0	0	0	0	-
		0.0040	200	0.5	-	0	0	0	0	0	0	0	0	-
		0.0080	200	0.5	-	0	1	2.5	0	0	0	2.5	2.5	-
		0.012	200	2	-	0	7.5	10.5	0	0.5	0	13.5	13.5	+
		0.016	No obserbation for metaphase											
Positive Control [MMC]	24	0.00004	200	0.5	-	2	9.5	36.5	0	0.5	0	42	43.5	+
	48	0.00004	200	0.5	-	3.5	14	54	0	0.5	0	59	59.5	+

Judgement for
Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; not yet cited

Experimental Data with Metabolic Activation

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	
Saline	-	10%	200	2	-	0.5	2	0.5	0	0	0	2.5	3	-
	+	10%	200	3.5	-	0	0	1	0	0	0	1	1	-
Test Chemical	-	0.010	200	3.5	-	1	4	2.5	0	0	0	5.5	6.5	±
		0.020	200	3	-	1	12	21.5	0	0.5	0	24.5	24.5	+
		0.040	200	1	-	0	12.5	31.5	0	0	0	35	35	+
		0.080	200	1	-	0.5	11.5	28	0	0	0	30.5	30.5	+
		0.16	No obserbation for metaphase											
	+	0.040	200	4	-	0	2	2.5	0	0	0	4	4	-
		0.080	200	3	-	0.5	4.5	21	0	0	0	22	22.5	+
		0.16	200	3.5	-	0.5	8	28.5	0	0	0	31.5	32	+
		0.32	96	7.3	±	0	20.8	60.4	2.1	0	0	67.7	67.7	+
	Positive Control [B[a]P]	-	0.01	200	3.5	-	0.5	2	0.5	0	0.5	0	3	3.5
+		0.01	200	1.5	-	0	2.5	33.5	0	1	0	35	35	+

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