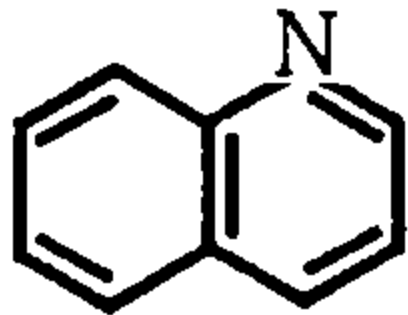


Quinoline (キリリン)

Chemical Name: Quinoline
Synonym
Molecular weight: 129.15
Melting point: -15°C
Boiling point: 237.7°C
Chemical Structure

CAS No : 91-22-5
MITI No : (5)-794
Source of Substance: Wako Pure Chemical Ind., Ltd.
Lot. No. : CTP5283
Purity: %
Vehicle: DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							
					Gap	CTB	CTE	CSB	CSE	Total		Judge
										-G	+G	
DMSO	24	200	0.5	—	0.5	0	0	0	0	0	0.5	—
	48	200	0	—	0	0	0	0	0	0	0	—
Test Chemical												
	24	0.10	200	2.0	—	0	0	0	0	0	0	—
		0.20	200	2.0	—	0.5	0	0	0	0.5	0.5	—
		0.40	200	0.5	—	0.5	0.5	1.5	0.5	0	2.0	—
		0.60				No observation for metaphase						
		0.80				No observation for metaphase						
	48	0.10	200	0.5	—	0	0	0	0	0	0	—
		0.20	200	3.0	—	0	0	0	0	0	0	—
		0.40	167	4.2	—	0.6	0.6	0.6	0	0	1.2	—
		0.60				No observation for metaphase						
		0.80				No observation for metaphase						
Positive Control												
(MMC)	24	0.00005	200	0	—	3.5	11.0	53.5	0	0	58.0	—
	48	0.00005	200	2.0	—	8.5	21.0	87.5	0	0	90.5	—

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	-	200	2.0	-	0	0	0.5	0	0	0.5	0.5	-	
	+	200	1.0	-	0	0	0.5	0	0	0.5	0.5	-	
Test Chemical													
	-	0.0075	200	1.5	-	0	0.5	0	0	0	0.5	0.5	-
		0.015	200	0.5	-	0	0	0	0	0	0	0	-
		0.030	200	1.0	-	0.5	0	0	0	0	0	0.5	-
		0.045	200	2.5	-	0.5	0	0.5	0.5	0	0.5	1.0	-
		0.060	200	2.5	-	0.5	0	1.0	0	0	1.0	1.5	-
	+	0.0075	200	1.0	-	0	0.5	0.5	0	0	1.0	1.0	-
		0.015	200	1.5	-	0.5	0	3.5	0	0	3.5	4.0	-
		0.030	200	1.0	-	2.0	6.5	29.5	0	0	31.0	31.5	+
		0.045	200	3.0	-	4.0	8.0	47.0	0	1.5	49.5	50.5	+
		0.060				No observation for metaphase							
Positive Control													
(B(a)P)	-		200	1.5	-	0	0	0	0	0	0	0	-
	+		200	0	-	2.0	9.0	34.0	0	0	36.5	36.5	+