

QUININE HYDROCHLORIDE – BP

SPECIFICATION

PRODUCT	:	QUININE HYDROCHLORIDE – BP
GRADE	:	BP
EMPIRICAL FORMULA	:	$C_{20}H_{24}N_2O_2 \cdot HCl \cdot 2H_2O$
MOLECULAR WEIGHT	:	396.50 GMS/MOLE
DESCRIPTION FINE,	:	A WHITE OR ALMOST WHITE CRYSTALLINE POWDER OR COLOURLESS NEEDLES.
ASSAY (ON DRY BASIS)	:	99 % TO 101 %
LOD	:	6 % TO 10 %
SOLUBILITY	:	SLIGHTLY SOLUBLE IN WATER, SPRINGLY SOLUBLE IN BOILING WATER AND ALCHOL.
IDENTIFICATION	:	A. TLC METHOD B. -- C. GIVES REACTION OF SULPHATE D. GIVES REACTION OF CHLORIDE E. TEST FOR Ph
pH	:	6.0 TO 6.8 DETERMINED IN A 1.0 % W/V SOLUTION IN WATER
SPECIFIC OPTICAL ROTATION	:	BETWEEN -245° TO -258° CALCULATED ON DRIED BASIS
APPERANCE OF SOLUTION REFERENCE –	:	SOLUTION NOT MORE INTENSELY COLOURED THAN SOLUTION GY6
SULPHATED ASH	:	1 % [NMT]
SULPHATE	:	500 PPM. [NMT]
BARIUM	:	TO 15 ML OF SOLUTION AND ADD 1 ML OF DILUTE H_2SO_4
NO	:	AFTER ATLEAST 15 MIN SOLUTION SHOULD REMAIN CLEAR. OPADESCENE

QUININE DI HYDROCHLORIDE

SPECIFICATION

PRODUCT	:	QUININE DI HYDROCHLORIDE
EMPIRICAL FORMULA	:	(C ₂₀ H ₂₄ N ₂ O ₂) 2HCl
MOLECULAR WEIGHT	:	397 GMS/MOLE
DESCRIPTION	:	WHITE OR ALMOST WHITE POWDER
ASSAY (ON DRY BASIS)	:	99 % TO 101.50 %
LOD	:	3 % [NMT]
SOLUBILITY	:	HIGHLY SOLUBLE IN WATER, SOLUBLE ETHANOL (95 %) SLIGHTLY SOLUBLE IN CHLOROFORM. VERY SLIGHTLY SOLUBLE IN ETHER.
IDENTIFICATION	:	A, B, C, D PASSES F. GIVES THE APPEARANCE OF QUININE G. GIVES REACTION OF SULPHATE.
pH	:	2 TO 3 DETERMINED ON DRIED BASIS
SPECIFIC OPTICAL ROTATION	:	BETWEEN -223° TO -229° CALCULATED ON DRIED BASIS.
BARIUM	:	TO 15 ML OF 2 % W/V SOLUTION, ADD 1 ML OF DILUTE H ₂ SO ₄ AND THE SOLUTION REMAINS CLEAR FOR ATLEAST 15 MIN.
SULPHATE	:	0.125 % [NMT]
DIHYDROQUININE – DIHYDROCHLORIDE	:	10 % [NMT]
TITRATABLE CATION	:	79.7 % TO 84.2 %
SULPHATED ASH	:	0.1 % [NMT]

QUININE SULPHATE [DI HYDRATE]

SPECIFICATION

PRODUCT	:	QUININE SULPHATE [DI HYDRATE]
CAS NO.	:	6119 – 70 – 6
ITHC	:	30-04-94-56 TO 59
GRADE	:	IP/BP
EMPIRICAL FORMULA	:	$(C_20H_{24}N_2O_2)_2 H_2SO_4, 2H_2O$
MOLECULAR WEIGHT	:	782.95 GMS/MOLE
DESCRIPTION	:	WHITE OR ALMOST WHITE, NEEDLE LIKE CRYSTALS OR CRYSTALLINE DRY POWDER.
ASSAY (ON DRY BASIS)	:	99 % TO 101 %
LOD	:	5 % [NMT]
SOLUBILITY	:	SLIGHTLY SOLUBLE IN WATER, SPRINGLY SOLUBLE IN BOILING WATER AND ALCOHOL.
IDENTIFICATION	:	A. IN THE TEST FOR OTHER CHINCONA ALKALOIDS, THE PRINCIPAL SPOT IN THE CHROMATOGRAPH OBTAINED WITH THE SOLUTION. H. COMPLIES WITH TEST B TO E DESCRIBED UNDER QUININE SULPHATE.
pH	:	BETWEEN 5.7 TO 6.6
SPECIFIC OPTICAL ROTATION	:	BETWEEN -237° TO -245°
APPEARANCE OF SOLUTION	:	SOLUTION NOT MORE INTENSELY COLOURED THAN REFERENCE – SOLUTION GYS4.
SULPHATED ASH	:	0.1 % [NMT]
CATEGORY	:	ANTI MALARIAL

QUNINE BI SULPHATE

SPECIFICATION SHEET

PRODUCT	:	QUNINE BI SULPHATE
EMPIRICAL FORMULA	:	$C_{20}H_{24}N_2O_2, H_2SO_4, 7H_2O$
MOLECULAR WEIGHT	:	548.60 GMS/MOLE
DESCRIPTION	:	COLOURLESS OR FAINTLY YELLOW CRYSTALS OR WHITE FAINTLY CRYSTALLINE POWDER EFFLORESCENT IN DRY AIR
ASSAY (ON DRY BASIS)	:	98.5 % TO 101.5 %
WATER	:	19 % TO 25 %
SOLUBILITY	:	FREELY SOLUBLE IN BOILING WATER AND BOILING ETHANOL (95 %) SOLUBLE IN WATER , SPRINGLY SOLUBLE IN CHLOROFORM.
IDENTIFICATION	:	A. GIVES THE APPEARANCE OF QUNINE. B. GIVES THE REACTION OF SULPHATE.
pH	:	BETWEEN 2.8 TO 3.4 DETERMINED IN A 1% W/W SOLUTION
SPECIFIC OPTICAL ROTATION BASIS.	:	BETWEEN -208° TO -216° CALCULATED ON DRIED
SULPHATE	:	0.1 % [NMT]