

PRODUCT: MORPHINE HYDROCHLORIDE

ITEMS	SPECIFICATIONS
DESCRIPTION	White or almost white crystalline powder
SOLUBILITY	Soluble in water, slightly soluble in ethanol (96%), practically insoluble in toluene
IDENTIFICATION a) IR Spectrum b) Chloride reaction	Comparison with spectrum of morphine hydrochloride trihydrate CRS (Standard of Ph. Eur.) Positive
APPEARANCE OF S SOLUTION	Clear and colourless or $\leq Y_6$, BY_6
ACIDITY OR ALKALINITY	≤ 0.2 ml HCl 0.02M or NaOH 0.02M
SPECIFIC OPTICAL ROTATION	$-110^\circ \sim -115^\circ$
RELATED SUBSTANCES (HPLC) a) Codeine b) 2,2'-bimorphine c) Oripavine d) 10-hydroxymorphine e) Morphinone f) Morphine N-oxide g) Others h) Total	$\leq 0.2\%$ $\leq 0.4\%$ $\leq 0.2\%$ $\leq 0.2\%$ $\leq 0.2\%$ $\leq 0.2\%$ $\leq 0.2\%$ $\leq 1.0\%$
SULPHATED ASHES	$\leq 0.1\%$
WATER	12.5% ~ 15.5%
ASSAY	98.0% ~ 102.0%
RESIDUAL SOVENTS=> Ethanol	≤ 5000 ppm