

Wanbury Limited

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Certificate of Analysis

Product

: Metformin Hydrochloride BP/ PhEur/USP

Batch No.

BMS1190911

Batch Size

: 2002.40 kg

Qty. Supplied Qty. Sampled

: 2000 kg

: 100 g

Mfg. Date

Exp. Date

Date of Sampling

Date of analysis

Mfg. Lic. No.

: September-2011 : August -2016

: September 19, 2011 : September 21, 2011

: KD-242

Sr. No.	Tests	Observations	Specifications
01.	Appearance	White Crystals	White Crystals
02.	Solubility	Freely soluble in water, slightly soluble in alcohol	
03.	Identification A. Melting point B. IR Spectrum	223°C Concordant	222 °C to 226 °C Infrared absorption spectrum of sample should concordant with that of
	C. By TLC	Conforms	Metformin hydrochloride working standard. The principal spot in the chromatogram obtained with the test solution should be similar in position, colour and size to the
	D. Colour test E. Chlorides	Complies Positive	principal spot in the chromatogram obtained with reference solution. A pink colour should develop Should be positive
04. 05.	Appearance of solution (10% solution in water) Related substances (by HPLC) a) Impurity A	Solution is clear and colourless	Should be clear and colourless
	(Cyanoguanidine) b) Other impurity c) Total impurities	0.003% 0.026% 0.050%	Not more than 0.02% Not more than 0.1% Not more than 0.3%
06.	Heavy metals	Less than 10 ppm	Not more than 10 ppm
07.	Loss on drying at 105°C for 5 hours	0.20%	Not more than 0.5 %
08.	Sulphated ash	0.04%	Not more than 0.1 %
39. 10.	Assay (% on dry basis) Additional Test	99.6%	98.5% - 101.0%
	Residual Solvent Methanol Xylene		NMT 1000 ppm NMT 500 ppm

Remarks: Product Complies with B.P-2011 / PhEur -7th Edition /USP-33/Customer Specifications/COS NO.: R1-CEP 1998-079-Rev. (Declaration: Product is free from animal derived materials and is manufactured from synthetic sources only.

Analysed By:

W

Jah.

S. K. Dalvi Analyst

Checked By:

A.D.Gaikwad Asst Manager QA/QC

Approved By:

M. G. Narayan DGM-QA/QC

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