

## Wanbury Limited

A-15, MIDC Industrial Area, Patalganga, Dist. Raigad - 410 220. Maharashtra. INDIA

Tel.: +91-2192-660200/660222/660229

Fax: +91-2192-660228 Website: www.wanbury.com

## Certificate of Analysis

Product

: Metformin Hydrochloride BP/ PhEur/USP

Batch No. **Batch Size**  : BMS1190911

: 2002.40 kg

Qty. Supplied Qty. Sampled

: 2000 kg

: 100 g

Mfg. Date

Exp. Date

: September-2011 : August -2016

**Date of Sampling** 

Date of analysis

: September 19, 2011 : September 21, 2011

Mfg. Lic. No.

: 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		deciene and in methylene emoride.
	A. Melting point	223°C	222 °C to 226 °C
	B. IR Spectrum	Concordant	Infrared absorption spectrum of sample should concordant with that of Metformin hydrochloride working standard.
	C. By TLC	Conforms	The principal spot in the chromatogram obtained with the test solution should be similar in position, colour and size to the
	504		principal spot in the chromatogram
	D. Colour test	Complies	obtained with reference solution.
	E. Chlorides	Positive	A pink colour should develop Should be positive
04. 05.	Appearance of solution (10% solution in water) Related substances (by HPLC)	Solution is clear and colourless	Should be clear and colourless
	a) Impurity A		
	(Cyanoguanidine)	0.003%	Not more than 0.02%
	b) Other impurity	0.026%	Not more than 0.1%
0.0	c) Total impurities	0.050%	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 %
09.	Assay (% on dry basis)	99.6%	98.5% - 101.0%
	Additional Test		70.070 101.070
	Residual Solvent		
	Methanol	224 ppm	NMT 1000 ppm
	Xylene	Not detected	NMT 500 ppm

Remarks: Product Complies with B.P-2011 / PhEur -7<sup>th</sup> Edition /USP-33/Customer Specifications/COS NO.: R1-CEP 1998-079-Rev. 0 Declaration: Product is free from animal derived materials and is manufactured from synthetic sources only.

Analysed By:

S. K. Dalvi Analyst

Checked By:

A.D.Gaikwad Asst.Manager QA/QC Approved By:

M. G. Narayan DGM-QA/QC

Regd. Office: BSEL Tech Park, B-Wing, 10th Floor, Sector-30A, Opp. Vashi Railway Stn., Vashi Navi Mumbai - 400703. Maharashtra, INDIA. Tel:-+91-22-6794 2222 Fax:+91-22-6794 2111/333.