

CERTIFICATE OF ANALYSIS

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PRODUCT : DILTIAZEM HCI (MICRONISED)		COMPENDIA	: Ph.Eur7.7
BATCH NO. : DIL/M-00914		QUANTITY	: 500 Kg
MFG. DATE: JANUARY.2014		EXP. DATE	: DECEMBER.2018
QC A.R. No.: FP/013/2014			
TESTS		RESULTS	SPECIFICATIONS
01. CHARACTERS			
i. Appearance	A white, crystalline powder.		White or almost white, crystalline
ii. Solubility	Freely soluble in water, in methanol and in methylene chloride, slightly soluble in		
iii. Melting point	anhydrous ethanol. Melted at 213°C with decomposition.		anhydrous ethanol. Melts at about 213° C with decomposition.
02. IDENTIFICATION			
IR Absorption	Concordant with working standard		IR Absorption spectrum of the sample is concordant with that of the Diltiazem hydrochloride CRS / working standard.
CHLORIDES	Positive		It gives reaction to chlorides.
03. APPEARANCE OF SOLUTION	Clear and colorless		Clear and colourless.
04. pH	4.8		4.3 to 5.3
05. SPECIFIC OPTICAL ROTATION	+118°		+ 115° to + 120°
06. RELATED SUBSTANCES			
i. Impurity F	Not Quantified		Not more than 0.3% w/w
ii. Unspecified Impurities	Not Qua		Not more than 0.10% w/w each
iii.Total Impurities 07. HEAVY METALS	Not Qua		Not more than 0.30% w/w
08. LOSS ON DRYING	0.34%	n 10 ppm	Not more than 10 ppm Not more than 0.50% w/w
09. SULPHATED ASH	0.03%		Not more than 0.30% w/w
10. ASSAY (By Titration)	100.13%		Not less than 98.50% w/w and
(On dried basis)	100.1070		Not more than 101.00% w/w
ADDITIONAL TEST:			
PARTICLE SIZE			
100%	25 Microns		100% Less than 100 Microns
Surface Area	1.92 m ² /gm		For Information
RESIDUAL SOLVENTS (BY GC-HS)			
Toluene	237 ppm		Not more than 750 ppm
Methanol	204 ppm		Not more than 500 ppm
Isopropyl Alcohol Ethyl Acetate	Not detected 20 ppm		Not more than 1000 ppm
Bulk Density	0.26 g/ml		Not more than 2500 ppm For Information
Tapped Density	0.50 g/ml		For Information
DEMARKS. The product conforms to Db Eury 779 Customer's Specifications			

REMARKS: The product conforms to Ph.Eur.-7.7 & Customer's Specifications

Prepared by Executive-QC

Checked by Manager-QC

Approved by Manager-QC

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