

CERTIFICATE OF ANALYSIS

PRODUCT : DILTIAZEM HCI		COMPENDIA	. Db F 7.7
(MICRONISED)		COMPENDIA	: Pn.Eur7.7
BATCH NO.: DIL/M-01014		QUANTITY	: 500 Kg
MFG. DATE: JANUARY.2014		EXP. DATE	: DECEMBER.2018
QC A.R. No.: FP/014/2014			
TESTS	F	RESULTS	SPECIFICATIONS
01. CHARACTERS			
i. Appearance	A white, crystalline powder.		White or almost white, crystalline powder.
ii. Solubility	Freely soluble in water, in methanol and in methylene chloride, slightly soluble in anhydrous ethanol.		Freely soluble in water, in methanol and in methylene chloride, slightly soluble in anhydrous ethanol.
iii. Melting point	Melted decompo	at 213°C with	Melts at about 213° C with decomposition.
02. IDENTIFICATION			
IR Absorption	Concorda standard	ant with working	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	4.9		4.3 to 5.3
05. SPECIFIC OPTICAL ROTATION	DN +116°		+ 115° to + 120°
06. RELATED SUBSTANCES			
i. Impurity F	Not Quar	ntified	Not more than 0.3% w/w
ii. Unspecified Impurities	Not Quar	ntified	Not more than 0.10% w/w each
iii.Total Impurities	Not Quantified		Not more than 0.30% w/w
07. HEAVY METALS	Less than	10 ppm	Not more than 10 ppm
08. LOSS ON DRYING	0.30%		Not more than 0.50% w/w
09. SULPHATED ASH	0.04%		Not more than 0.10% w/w
10. ASSAY (By Titration)	99.97%		Not less than 98.50% w/w and
(On dried basis) ADDITIONAL TEST: PARTICLE SIZE			Not more than 101.00% w/w
100%	36 Micror		100% Less than 100 Microns
Surface Area	1.86 m ² /gm		For Information
RESIDUAL SOLVENTS (BY GC-HS)			
Toluene	237 ppm		Not more than 750 ppm
Methanol	228 ppm		Not more than 500 ppm
Isopropyl Alcohol	5 ppm		Not more than 1000 ppm
Ethyl Acetate Bulk Density	24 ppm		Not more than 2500 ppm
Tapped Density	0.26 g/ml		For Information
REMARKS: The product conforms	0.48 g/mi		For Information

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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