

CERTIFICATE OF ANALYSIS

PRODUCT : DILTIAZEM HCI (MICRONISED)	COMPENDIA	>
BATCH NO. : DIL/M-11413	QUANTITY	: 500 Kg
MFG. DATE : JUNE.2013	EXP. DATE	: MAY.2018
QC	A.R. No.: FP/139/2013	
TESTS	RESULTS	SPECIFICATIONS
01. CHARACTERS		to the second of
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.	methanol and in methylene chloride, slightly soluble in anhydrous ethanol.
iii. Melting point	Melted at 213°C with decomposition.	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	4.9	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 Quantified	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	0.13%	Not more than 0.50% w/w
09. SULPHATED ASH	0.03%	Not more than 0.10% w/w
10. ASSAY (By Titration)	99.77%	Not less than 98.50% w/w and
(On dried basis) ADDITIONAL TEST:		Not more than 101.00% w/w
PARTICLE SIZE		100% Less than 100 Microns
100%	25 Microns	For Information
Surface Area	1.92 m ² /gm	FOI IIIIOIIIIation
RESIDUAL SOLVENTS	000	Not more than 750 ppm
Toluene	293 ppm	Not more than 750 ppm
Methanol	134 ppm	Not more than 1000 ppm
Isopropyl Alcohol	Not detected	Not more than 2500 ppm
Ethyl Acetate	0 ppm 0.28 g/ml	For Information
Bulk Density	0.28 g/ml	For Information
Tapped Density REMARKS: The product conforms	to Dh Eur 778 Custon	

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

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Prepared by Executive-QC

Checked by Executive-QC

Approved by Manager QC

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