

CERTIFICATE OF ANALYSIS

PRODUCT : DILTIAZEM HCI (MICRONISED)	COMPENDIA	A : Ph.Eur7.7
BATCH NO. : DIL/M-15413	QUANTITY	: 360 Kg
MFG. DATE : AUGUST.2013	EXP. DATE	: JULY.2018
	A.R. No.: FP/186/201	
TESTS	RESULTS	SPECIFICATIONS
01. CHARACTERS		
i. Appearance	A white, crystalline powder	powder.
ii. Solubility	Freely soluble in water, methanol and in methyle chloride, slightly soluble anhydrous ethanol.	ne methanol and in methylene
iii. Melting point	The state of the s	rith 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	+116°	+ 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	0.26%	Not more than 0.50% w/w
09. SULPHATED ASH	0.01%	Not more than 0.10% w/w
10. ASSAY (By Titration) (On dried basis) ADDITIONAL TEST: PARTICLE SIZE	99.87%	Not less than 98.50% w/w and Not more than 101.00% w/w
100%	22 Microns	100% Less than 100 Microns
Surface Area	1.95 m ² /gm	For Information
RESIDUAL SOLVENTS		
Toluene	225 ppm	Not more than 750 ppm
Methanol	79 ppm	Not more than 500 ppm
Isopropyl Alcohol	2 ppm	Not more than 1000 ppm
Ethyl Acetate	1 ppm	Not more than 2500 ppm
Bulk Density	0.25 g/ml	For Information
Tapped Density	0.46 g/ml	For Information

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

Deeun Prepared by Executive-QC

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