

## **CERTIFICATE OF ANALYSIS**

PRODUCT : DILTIAZEM HCI		COMPENDIA	
(MICRONISED)			
BATCH NO.: DIL/M-10114		QUANTITY	: 500 Kg
MFG. DATE: MAY.2014		EXP. DATE	: APRIL.2019
QC A.R. No.: FP/122/2014			
TESTS		RESULTS	SPECIFICATIONS
01. CHARACTERS			
i. Appearance	A white, crystalline powder.		White or almost white, crystalline powder.
ii. Solubility	Freely soluble in water, in		Freely soluble in water, in
	methanol and in methylene		methanol and in methylene
	chloride, slightly soluble in		chloride, slightly soluble in
		us ethanol.	anhydrous ethanol.
iii. Melting point	Melted at 213°C with		
02 IDENTIFICATION	decompo	osition.	decomposition.
02. IDENTIFICATION	Canaard	ant with warding	ID Absorbing and the
IR Absorption	Concordant with working standard		IR Absorption spectrum of the sample is concordant with that of
	Staridard		the Diltiazem hydrochloride CRS /
			working standard.
CHLORIDES	Positive		It gives reaction to chlorides.
03. APPEARANCE OF SOLUTION	Clear and colourless		Clear and colourless.
04. pH	4.9		4.3 to 5.3
05. SPECIFIC OPTICAL ROTATION			+ 115° to + 120°
06. RELATED SUBSTANCES			
i. Impurity F	Not Qua		Not more than 0.3% w/w
ii. Unspecified Impurities	Not Qua		Not more than 0.10% w/w each
iii.Total Impurities	Not Quantified		Not more than 0.30% w/w
07. HEAVY METALS 08. LOSS ON DRYING	Less than 10 ppm 0.22%		Not more than 10 ppm Not more than 0.50% w/w
09. SULPHATED ASH	0.03%		Not more than 0.50% w/w
	100.03%		Not less than 98.50% w/w and
10. ASSAY (By Titration) (On dried basis)	100.0376		Not more than 101.00% w/w
ADDITIONAL TEST:			Not more than 101.00% W/W
PARTICLE SIZE			
100%	26 Micro	ns	100% Less than 100 Microns
Surface Area	1.95 m <sup>2</sup> /gm		For Information
RESIDUAL SOLVENTS (BY GC-HS)			
Toluene	312 ppm		Not more than 750 ppm
Methanol	150 ppm		Not more than 500 ppm
Isopropyl Alcohol Ethyl Acetate	Not detected 1 ppm		Not more than 1000 ppm Not more than 2500 ppm
Bulk Density	0.25 g/ml		For Information
Tapped Density	0.23 g/m		For Information
REMARKS: The product conforms to Ph Fur -7.7 & Customer's Specifications			

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Deeler Prepared by **Executive-QC** 

Manager-QC

Approved by **General Manager-QC** 

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