

## **CERTIFICATE OF ANALYSIS**

PRODUCT : DILTIAZEM HCI (MICRONISED)		COMPENDIA	: Ph.Eur8.0
BATCH NO. : DIL/M-01615		QUANTITY	: 500 Kg
MFG. DATE: JANUARY.2015		EXP. DATE	: DECEMBER.2019
QC A.R. No.: FP/023/2015			
TESTS		RESULTS	SPECIFICATIONS
01. CHARACTERS			
i. Appearance	White c	rystalline powder.	White or almost white, crystalline
i. Appearance	v viiito, o	ryotamile powder.	powder.
ii. Solubility	Freely s	oluble in water, in	Freely soluble in water, in
	methanol and in methylene		methanol and in methylene
		slightly soluble in	chloride, slightly soluble in
22 NA - 10	Accessed to the second	ıs ethanol.	anhydrous ethanol.
iii. Melting point	Melted	at 213°C with	Melts at about 213° C with
02. IDENTIFICATION	decompo	osition.	decomposition.
IR Absorption	Canaaval		ID Alexandra
TR Absorption	standard	ant with working	IR Absorption spectrum of the
	Standard		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 colourless		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 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	0.19%		Not more than 0.50% w/w
09. SULPHATED ASH	0.05%		Not more than 0.10% w/w
10. ASSAY (By Titration)	100.00%		Not less than 98.50% w/w and
(On dried basis)			Not more than 101.00% w/w
ADDITIONAL TEST:			
PARTICLE SIZE			
100%	35 Micror		100% Less than 100 Microns
Surface Area RESIDUAL SOLVENTS ( BY GC-HS)	1.72 m <sup>2</sup> /gm		For Information
Toluene			Not more than 750 nnm
Methanol	189 ppm 84 ppm		Not more than 750 ppm  Not more than 500 ppm
Isopropyl Alcohol	9 ppm		Not more than 1000 ppm
Ethyl Acetate	1 ppm		Not more than 500 ppm
Bulk Density	0.29 g/ml		For Information
Tapped Density	0.48 g/ml		For Information
REMARKS: The product conforms to Ph.Eur8.0 & Customer's Specifications			

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Demo Prepared by **Executive-QC** 

Manager-QC

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