

CERTIFICATE OF ANALYSIS

PRODUCT : DILTIAZEM HCI (MICRONISED)		COMPENDIA	: Ph.Eur7.7
BATCH NO. : DIL/M-00614		QUANTITY	: 500 Kg
MFG. DATE: JANUARY.2014		EXP. DATE	: DECEMBER.2018
	2 A D N		DECEMBER.2018
QC A.R. No.: FP/010/2014 TESTS RESULTS SPECIFICATIONS			
		RESULTS	SPECIFICATIONS
01. CHARACTERS	Λ !		140.00
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
iii. Melting point	Melted	at 213°C with	Melts at about 213° C with
02. IDENTIFICATION	decompo	SILIOII.	decomposition.
IR Absorption	Concords	ant with working	ID Absorption exects as a til
	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	4.8		4.3 to 5.3
05. SPECIFIC OPTICAL ROTATION 06. RELATED SUBSTANCES	+117°		+ 115° to + 120°
i. Impurity F	Not Quar	atified	Not more than 0.3% w/w
ii. Unspecified Impurities	Not Quantified		Not more than 0.3% w/w Not more than 0.10% w/w each
iii.Total Impurities	Not Quantified		Not more than 0.10% w/w each
07. HEAVY METALS	Less than 10 ppm		Not more than 10 ppm
08. LOSS ON DRYING	0.31%		Not more than 0.50% w/w
09. SULPHATED ASH	0.02%		Not more than 0.10% w/w
10. ASSAY (By Titration)	100.21%		Not less than 98.50% w/w and
(On dried basis) ADDITIONAL TEST: PARTICLE SIZE	.00.2170		Not more than 101.00% w/w
100%	25 Micron	ns	100% Less than 100 Microns
Surface Area	1.98 m ² /gm		For Information
RESIDUAL SOLVENTS (BY GC-HS)			
Toluene	284 ppm		Not more than 750 ppm
Methanol	178 ppm		Not more than 500 ppm
Isopropyl Alcohol	12 ppm		Not more than 1000 ppm
Ethyl Acetate Bulk Density	7 ppm		Not more than 2500 ppm
Tapped Density	0.24 g/ml		For Information
REMARKS: The product conforms	0.48 g/ml	7700	For Information

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

Decen Prepared by **Executive-QC**

Checked by Manager-QC Manager-QC

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