

CERTIFICATE OF ANALYSIS

<u>JEKTH TOATE OF ANALTOIS</u>			
PRODUCT : DILTIAZEM HCI (MICRONISED)		COMPENDIA	: Ph.Eur8.0
BATCH NO. : DIL/M-20314		QUANTITY	: 100 Kg
MFG. DATE: DECEMBER.2014		EXP. DATE	: NOVEMBER.2019
QC A.R. No.: FP/249/2014			
TESTS		RESULTS	SPECIFICATIONS
01. CHARACTERS			
i. Appearance	White, c	rystalline powder.	White or almost white, crystalline
" 6 1 1 1111			powder.
ii. Solubility		oluble in water, in	Freely soluble in water, in
		and in methylene	methanol and in methylene
		slightly soluble in us ethanol.	chloride, slightly soluble in anhydrous ethanol.
iii. Melting point	Melted	at 213°C with	Melts at about 213° C with
moraling point	decompo		decomposition.
02. IDENTIFICATION	accompa		decomposition.
IR Absorption	Concorda	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	+119°		+ 115° to + 120°
06. RELATED SUBSTANCES			
i. Impurity F	0.1%		Not more than 0.3% w/w
ii. Unspecified Impurities	Not Quantified		Not more than 0.10% w/w each
iii.Total Impurities 07. HEAVY METALS	0.06%		Not more than 0.30% w/w
08. LOSS ON DRYING	Less than 10 ppm 0.18%		Not more than 10 ppm
09. SULPHATED ASH			Not more than 0.50% w/w
	0.03%		Not more than 0.10% w/w
10. ASSAY (By Titration)	99.99%		Not less than 98.50% w/w and
(On dried basis) ADDITIONAL TEST:			Not more than 101.00% w/w
PARTICLE SIZE			
100%	79 Micror	ne	100% Less than 100 Microns
Surface Area	1.61 m ² /g		For Information
RESIDUAL SOLVENTS (BY GC-HS)	1.01 11178	,	, or mornation
Toluene	199 ppm		Not more than 750 ppm
Methanol	123 ppm		Not more than 500 ppm
Isopropyl Alcohol	1 ppm		Not more than 1000 ppm
Ethyl Acetate	0 ppm		Not more than 500 ppm
Bulk Density	0.31 g/ml		For Information
Tapped Density	0.55 g/ml	0000	For Information

REMARKS: The product conforms to Ph Eur.-8.0 & Customer's Specifications

Prepared by Executive-QC

Checked by Manager-QC

Approved by General Manager-QC

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