

CERTIFICATE OF ANALYSIS

PRODUCT : DILTIAZEM HCI		COMPENDIA	: Ph.Eur8.0
(MICRONISED) BATCH NO.: DIL/M-19914		QUANTITY	: 500 Kg
MFG. DATE: DECEMBER.2014			: NOVEMBER.2019
		:: FP/243/2014	. 140 V LIVIBLIX.2013
		RESULTS	SPECIFICATIONS
TESTS	<u> </u>	CESULIS	SPECIFICATIONS
01. CHARACTERS	White, crystalline powder.		White or almost white, crystalline
i. Appearance	vville, crystalline powder.		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
		s ethanol.	anhydrous ethanol.
iii. Melting point	Melted	at 213°C with	Melts at about 213° C with
02. IDENTIFICATION	decompo	SILION.	decomposition.
IR Absorption	Concords	ant with working	IR Absorption spectrum of the
TR Absorption	standard		sample is concordant with that of
	010110010		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 +117°		+ 115° to + 120°	
06. RELATED SUBSTANCES		in an in	
i. Impurity F	Not Quantified		Not more than 0.3% w/w
ii. Unspecified Impurities	Not Quar		Not more than 0.10% w/w each Not more than 0.30% w/w
iii.Total Impurities 07. HEAVY METALS	Not Quantified Less than 10 ppm		Not more than 0.30% w/w Not more than 10 ppm
08. LOSS ON DRYING	0.19%	т то ррпп	Not more than 0.50% w/w
09. SULPHATED ASH	0.03%		Not more than 0.10% w/w
10. ASSAY (By Titration)	100.04%		Not less than 98.50% w/w and
(On dried basis)	100.0470		Not more than 101.00% w/w
ADDITIONAL TEST:			
PARTICLE SIZE			
100%	85 Micro	ns	100% Less than 100 Microns
Surface Area	1.85 m²/gm		For Information
RESIDUAL SOLVENTS (BY GC-HS)			N
Toluene	232 ppm		Not more than 750 ppm
Methanol	142 ppm		Not more than 500 ppm Not more than 1000 ppm
Isopropyl Alcohol Ethyl Acetate	0 ppm 7 ppm		Not more than 500 ppm
Bulk Density	0.33 g/ml		For Information
Tapped Density	0.55 g/m		For Information
			1 0 10 11

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

Prepared by Executive-QC

Checked by Manager-QC

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