

CERTIFICATE OF ANALYSIS

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PRODUCT : DILTIAZEM HCI (MICRONISED)		COMPENDIA	: Ph.Eur8.0
BATCH NO. : DIL/M-01915		QUANTITY	: 500 Kg
MFG. DATE: JANUARY.2015			: DECEMBER.2019
QC A.R. No.: FP/026/2015			
TESTS		RESULTS	SPECIFICATIONS
01. CHARACTERS		(LOULIO	3FECIFICATIONS
i. Appearance	White, c	rystalline powder.	White or almost white, crystalline
ii. Solubility	Freely soluble in water, in		powder. Freely soluble in water, in
	methanol and in methylene		methanol and in methylene
	chloride, slightly soluble in		chloride, slightly soluble in
iii. Melting point	anhydrous ethanol. Melted at 212°C with		anhydrous ethanol.
iii. Metting point	decompo		Melts at about 213° C with decomposition.
02. IDENTIFICATION	accompc	Sition.	decomposition.
IR Absorption	Concordant with working		IR Absorption spectrum of the
	standard		sample is concordant with that of
			the Diltiazem hydrochloride CRS /
CHLORIDES	Positive		working standard.
03. APPEARANCE OF SOLUTION	Clear and colourless		It gives reaction to chlorides. Clear and colourless.
04. pH	4.8		4.3 to 5.3
05. SPECIFIC OPTICAL ROTATION	+119°		+ 115° to + 120°
06. RELATED SUBSTANCES	. 113		1 113 10 1 120
i. Impurity F	Not Quar	ntified	Not more than 0.3% w/w
ii. Unspecified Impurities	Not Quar		Not more than 0.10% w/w each
iii.Total Impurities	Not Quar		Not more than 0.30% w/w
07. HEAVY METALS	Less that	n 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)	100.03%		Not less than 98.50% w/w and
(On dried basis)			Not more than 101.00% w/w
ADDITIONAL TEST:			
PARTICLE SIZE	00 M:		1000/ 1 11 100 14
100% Surface Area	26 Micro 2.03 m ² /g		100% Less than 100 Microns For Information
RESIDUAL SOLVENTS (BY GC-HS)	2.03 1117(jiii	1 or information
Toluene	266ppm		Not more than 750 ppm
Methanol	153 ppm		Not more than 500 ppm
Isopropyl Alcohol	10 ppm		Not more than 1000 ppm
Ethyl Acetate	1 ppm		Not more than 500 ppm
Bulk Density	0.30 g/m		For Information
Tapped Density	0.52 g/m		For Information

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

Prepared by Executive-QC

Checked by Manager-QC

Approved by Manager-QC

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