

## **CERTIFICATE OF ANALYSIS**

PRODUCT : DILTIAZEM HO		
BATCH NO. : DIL/M-10515	/ QUANTITY	
MFG. DATE : MAY.2015	EXP. DATE	
QC A.R. No.: FP/134/2015		
TESTS	RESULTS	SPECIFICATIONS
01. CHARACTERS	AAR SI A-US	140.2
I. Appearance	White, crystalline powder.	White or almost white, crystalline powder.
ii. Solubility	Freely soluble in water, in	Freely soluble in water, in methanol
•	methanol and in methylene	and in methylene chloride, slightly
	chloride, slightly soluble in	soluble in anhydrous ethanol.
ili. Melting point	anhydrous ethanol. Melts at 213°C with	Melts at about 213° C with
in. Melalig point	decomposition.	decomposition.
02. IDENTIFICATION	a seempoon as in	assemption.
IR Absorption	Concordant with working	IR Absorption spectrum of the
	standard	sample 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	4.9	4.3 to 5.3
05. SPECIFIC OPTICAL ROTATION	+118°	+ 115° to + 120°
		+ 115-10 + 120-
06. RELATED SUBSTANCES (By Hi Impurity F	Not Quantified	Not more than 0.3% w/w
		Not more than 0.10% w/w each
Unspecified Impurities	Not Quantified	
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	0.22%	Not more than 0.50% w/w
09. SULPHATED ASH	0.02%	Not more than 0.10% w/w
10. ASSAY (By Titration)	100.16%	Not less than 98.50% w/w and
(On dried basis)		Not more than 101.00% w/w
ADDITIONAL TESTS:  1. RESIDUAL SOLVENTS:		
Toluene	182 ppm	Not more than 750 ppm
Methanol	211 ppm	Not more than 500 ppm
Isopropyi Alcohol	5 ppm	Not more than 1000 ppm
Ethyl Acetate	0 ppm	Not more than 2500 ppm
REMARKS: The product conforms		ins

Prepared by Executive-QC

Checked by Manager-QC

General Manager-QC

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