



HL-DG-QC-SPG-100025			QAD-F-3002-02
CE	RTIFICATE C	FANALYSIS	
PRODUCT : DILTIAZEM HCI		COMPENDIA	: USP-43
BATCH No. : DIL/M-22521		BATCH QUANTIT	ry : 375.15 Kg
		EXPIRY DATE	: JUNE.2026
1711 0 1 0 1 1 1		DISPATCH QUAL	NTITY: 50.00 Kg
		QC A.R. No.	; FP/225/2021
INPUT BATCH No. : DIL3308021		Supersede No.	: NA
Version No. : 00		Superseue No.	SPECIFICATION
TESTS	RESULTS		White, odorless, crystalline powder or small
1. DESCRIPTION	White, crystalline powder. Melts at 213° C with decomposition.		crystals. Melts at about 210° C with decomposition.
2. SOLUBILITY	Freely soluble in chloroform, in formic acid, in methanol and in water. Sparingly soluble in dehydrated alcohol. insoluble in ether.		Freely soluble in chloroform, in formic acid, in methanol and in water. Sparingly soluble in dehydrated alcohol; insoluble in ether
3. IDENTIFICATION			The IR of the test sample is concordant with that
A. IR Absorption	Concordant with working standard		of the working standard/Reference standard.
B. HPLC	Conforms		Hydrochloride peak in the chromatogram of th assay preparation corresponds to that of th chromatogram of the standard preparation obtained under assay test.
C Chlorides.	Positive		Gives positive test for chloride.
4. SPECIFIC ROTATION	+114°		Between +110° to +116°
5. LOSS ON DRYING	0.18%		Not more than 0.50% w/w
6. RESIDUE ON IGNITION	0.04%		Not more than 0.10% w/w
7. RELATED SUBSTANCES (By HPLC)	10.0170		
Desacetyl Diltiazem HCI	0.04%		Not more than 0.30%
Unknown Individual impurity	0.03%		Not more than 0.10%
	0.08%		Not more than 0 50%
Total impurities RESIDUAL SOLVENTS (By GC-HS)	London		4
CLASS - 2. Residual Solvents	T	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	T T
a) Toluene	555 ppm		Not more than 750 ppm
b) Methanol	246 ppm		Not more than 500 ppm
CLASS - 3. Residual Solvents			N - 1000
a) Isopropyl Alcohol	1 ppm		Not more than 1000 ppm Not more than 500 ppm
b) Ethyl Acetate	0 ppm		Not less than 98.0% w/w and Not more than
9. ASSAY (By HPLC) (On dried basis)	99.5%		102.0% w/w of C ₂₂ H ₂₆ N ₂ O ₄ S HCl.
Additional Information: NA			At the second se
Remarks: The product conforms to	o USP-43 spec	cifications.	was qualities at
Prepared by Sign & Date		by Sign & Date	Approved by Sign & Date
Executive-QC/Team member	Evecutive	e-QC/Manager-QC	

Piramal Pharma Limited

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