

QUALITY CONTROL DEPARTMENT CERTIFICATE OF ANALYSIS

Prod			Ciprofloxa	cin Hydroc	hloride EP				Page 1 of 1	
CAS No.		86393-32-0			Date of Mfg.		MATE I	July 2013		
Batc	ch No.		CEP/1307143			Expiry Date			June 2018	
Batch Quantity 460.00 Kg.				Date of Analys				07/08/2013		
A.R. No. E-22/13P0210						Date of Release		24/08/2013		
SR. NO.	TESTS							ECIFI	CATIONS	
1.	Appearance			slightly	Pale yellow, crystalline, slightly hygroscopic powder.		Pale yellow, crystalline, slightly hygroscopic powder.			
2.	Solubility				Complies.		Soluble in Water, Slightly soluble in Methanol, Very slightly soluble in anhydrous Ethanol, Practically insoluble in Acetone, in Ethyl acetate and in Methylene chloride.			
3.	Identification A) By IR			Confirm		b s _j H	The Infrared absorption spectrum of test sample being examined must be concordant with the IR spectrum obtained from Ciprofloxacin Hydrochloride WS.			
	B) Reaction For Chloride				Complies.		It gives the reaction of chlorides.			
4.	Appearance	Appearance of Solution			Complies.		The solution is clear and not more intensely			
5.	nU			2.62	2.62		coloured than reference solution GY ₅ .			
6.	pH Impurity A (Py TI C)			3.62	Less Than 0.2%		Between 3.5 to 4.5			
7.		Impurity A (By TLC) Related Substances			Less Than 0.2%		Not More Than 0.2%			
/ •	Impurity B			0.029/	0.02%		Not More Than 0.2%			
	 Impurity C Impurity D Impurity E Unspecified Impurity 				0.02% 0.02% 0.02% Not Detected.		Not More Than 0.2% Not More Than 0.2% Not More Than 0.3%			
				0.04%						
		• Total Impurities			0.04%		Not More Than 0.10%			
8.	Heavy Metals						Not More Than 0.5%			
9.	Water (By KF)				Less Than 20 ppm. 5.44%		Not More Than 20 ppm. Maximum 6.7 %, determined on 0.2g			
10.	Sulphated Ash				0.06%		Maximum 0.1%, determined on 0.2g			
11.	Assay (by HPLC)				99.77%		Not Less Than 98.0% and Not More Than			
	(on anhydrous basis)			33.7776			102.0%			
12.	EDTA Content			82 ppm	82 ppm.		Not More Than 200 ppm.			
	In-House To									
13.	Residual So	lvents								
	• Methanol			277 ppr	277 ppm.		Not More Than 3000 ppm.			
	• n-Butanol			Not De	Not Detected.		Not More Than 5000 ppm.			
• Toluene			Not De	Not Detected.		Not More Than 890 ppm.				
Opinio	on: The abo	ove pro	oduct Compl	ies as per EF	& In-house Spe	ecificat	ion with the	prescrib	ed standard of quality	
	with resp	ect to	above test as	per specifica	tion No.FPS/CI	PR/015	5-A Rev. 02			
Signature									14/04/2014	
				014			014		14/04/2014	
Position		Officer Q.C. Prepared By			Executive Q.C.				Head Q.C.	
					Checked B		sy Approve		approved by	

Certificate of Analysis Issued On: 14/04/2014



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