

QUALITY CONTROL DEPARTMENT CERTIFICATE OF ANALYSIS

Product			Ciprofloxacin Hydrochloride EP						Page 1 of 1
CAS No.			86393-32-0			Date of Mfg.			January 2014
Batch No.			CEP-MZ/140102			Expiry Date		June 2018	
Batch Quantity		7	161.50 Kg.			Date of Analysis		is	03/01/2014
A.R. No.			E-22/14PP0002			Date of Release			11/01/2014
SR.				OBSERVATION					CATIONS
NO.									
1.	Appearance			slightly	Pale yellow crystalline, slightly hygroscopic powder.		Pale yellow, crystalline, slightly hygroscopic powder.		
2.	Solubility			Compli	ies.	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			Confirm	Confirm.		The Infrared absorption spectrum of test sample		
	A) By IR						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 of Solution				Complies.		The solution is clear and not more intensely		
				- Comprisor		coloured than reference solution GY ₅ .			
5.	pH			3.61			Between 3.5 to 4.5		
6.	Impurity A (By TLC)			Less Th	Less Than 0.2%		Not More Than 0.2%		
7.	Related Substances								
	Impurity B			0.02%			Not More Than 0.2%		
	Impurity C			0.03%		Not More Than 0.2%			
	• Impurity D			0.02%		Not More Than 0.2%			
	Impurity EUnspecified Impurity			Not Detected.		Not More Than 0.3%			
					0.04% 0.13%		Not More Than 0.10%		
8.	Total Impurities Heavy Metals			Less Than 20 ppm.		Not More Than 0.5%			
9.	Water (By KF)				5.87%		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)				99.66%		Not Less Than 98.0% and Not More Than		
12.	(on anhydrous basis) EDTA Content			00	90		Not More Than 200 ppm		
12.	In-House T			80 ppm	80 ppm		Not More Than 200 ppm.		
13.									
13.	Residual Solvents • Methanol			107 ppr	197 ppm.		Not More The	an 3000 nn	ım
	• n-Butanol				Not Detected.		Not More Than 3000 ppm. Not More Than 5000 ppm.		
	• Toluene				Not Detected.		Not More Than 890 ppm.		
Opinio		ove ni	oduct Complies			pecifi			bed standard of quality
			above test as per						ounions of quality
Signature					all				Mmhahe
		Crosehor_ 14/04/2014		014	14104/2010		2014		14/04/2014
Position		Officer Q.C.		Executive Q.C.			Head Q.C.		
		Prepared By		Checked By			Approved by		

Certificate Of Analysis Issued On: 14/04/2014