






Aarti Drugs Limited

# QUALITY CONTROL DEPARTMENT

## CERTIFICATE OF ANALYSIS

<b>Product</b>		<b>Ciprofloxacin Hydrochloride EP</b>		<b>Page 1 of 1</b>	
<b>CAS No.</b>		<b>86393-32-0</b>	<b>Date of Mfg.</b>		<b>January 2013</b>
<b>Batch No.</b>		<b>CE/130101</b>	<b>Expiry Date</b>		<b>July 2017</b>
<b>Batch Quantity</b>		<b>320.00 Kg.</b>	<b>Date of Analysis</b>		<b>12/01/2013</b>
<b>A.R. No.</b>		<b>E-22/13B0001</b>	<b>Date of Release</b>		<b>17/01/2013</b>
<b>SR. NO.</b>	<b>TESTS</b>	<b>OBSERVATIONS</b>	<b>SPECIFICATIONS</b>		
1.	Appearance	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.	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 of Solution	Complies.	The solution is clear and not more intensely coloured than reference solution GY <sub>5</sub> .		
5.	pH	3.90	Between 3.5 to 4.5		
6.	Impurity A (By TLC)	Less Than 0.2%	Not More Than 0.2%		
7.	Related Substances				
	• Impurity B	0.03%	Not More Than 0.2%		
	• Impurity C	0.03%	Not More Than 0.2%		
	• Impurity D	0.01%	Not More Than 0.2%		
	• Impurity E	0.01%	Not More Than 0.3%		
	• Any Other Impurity	0.05%	Not More Than 0.10%		
	• Total Impurities	0.17%	Not More Than 0.5%		
8.	Heavy Metals	Less Than 20 ppm.	Maximum 20 ppm.		
9.	Water (By KF)	5.66%	Maximum 6.7 %, determined on 0.2g		
10.	Sulphated Ash	0.05%	Maximum 0.1%, determined on 1 gm		
11.	Assay (by HPLC) (on anhydrous basis)	99.80%	Not Less Than 98.0% and Not More Than 102.0%		
12.	EDTA Content	99 ppm.	Not More Than 200 ppm.		
<b>In-House Test</b>					
13.	Residual Solvents				
	• Methanol	66 ppm.	Not More Than 3000 ppm.		
	• n-Butanol	Not Detected.	Not More Than 5000 ppm.		
	• Toluene	Not Detected.	Not More Than 890 ppm.		
<b>Opinion :</b> The above product <b>Complies</b> as per EP & In-house Specification with the prescribed standard of quality with respect to above test as per specification No.FPS/CIPR/015-A Rev. 02					
<b>Signature</b>	 12/06/2014	 12/06/2014	 12/06/2014		
<b>Position</b>	<b>Officer Q.C. Prepared By</b>	<b>Executive Q.C. Checked By</b>	<b>Head Q.C. Approved by</b>		

Certificate Of Analysis Issued On : 12/06/2014

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