



Certificate of Analysis

Ciprofloxacin Hydrochloride Monohydrate EP

Catalog Number: CH1005
Lot Number: Typical-312
CAS Number: 86393-32-0
Molecular Formula: $C_{17}H_{18}FN_3O_3 \cdot HCl \cdot H_2O$
Molecular Weight: 385.82
Storage: 15°C – 30°C
Date of Manufacture: May 12, 2015
Retest Date: May 11, 2018

Test	Specification	Result
Appearance	Off-white to pale yellow powder, slightly hygroscopic	Conforms
Assay	98.0 – 102.0%	99.6%
Identification		
A. FTIR	To match spectra of reference standard	Conforms
B. Test for Chlorides	Solution responds to test for chlorides	Conforms
Solubility	Clear, not more intensely colored than GY5	Clear
pH	3.5 – 4.5	3.6
Moisture	≤ 6.7%	6.1%
Sulfated Ash	≤ 0.1%	0.02%
Impurity A	≤ 0.2%	< 0.2%
Related Substances		
Impurity B	≤ 0.2%	< 0.2%
Impurity C	≤ 0.2%	< 0.2%
Impurity D	≤ 0.2%	< 0.2%
Impurity E	≤ 0.3%	< 0.3%
Impurity F	≤ 0.1%	< 0.1%
Single Impurity	≤ 0.1%	0.08%
Total Impurities	≤ 0.5%	0.23%
Heavy Metals	≤ 20ppm	< 20ppm
Residual Solvents		
Ethanol	≤ 5,000ppm	< 5,000ppm
This batch is in compliance with EP8.		

Approved by:

John Grubb, PhD
Gojira Fine Chemicals, LLC
Quality Manager

Date: November 24, 2016



Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
5386 Majestic Parkway, Suite 7, Bedford Heights, OH 44146
www.gojiraafc.com • sales@gojiraafc.com

Tel: 440-539-7033 Fax: 888-211-5523
john@gojiraafc.com