

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center, Qianshan Road, Hefei 230022 China

Tel: (0086) 551 5418695
Fax: (0086) 551 5418697
Email: info@tnjchem.com
Site: www.tnjchem.com

Certificate of Analysis

Product	Ciprofloxacin Lactate				
CAS No.	97867-33-9		Batch Number	TNJ20140426022	
M.F.	C20H22FN3O5		Packing	25.00kg/drum	
M.W.	403.4		MFG Date	Apirl 26, 2014	
N.W.	500.00kg		Analysis Date	Apirl 26, 2014	
G.W.	568.00kg		Expiry Date	Apirl 25, 2016	
Items		Specification			Results
		Pale yellowcrystalline	powder		Conforms
		Almost odorless, bitter			Conforms
Description		Hardly solube in petroleum ether, acetic ether, alcohol; very slightly			
		solube in methnol; freely solube in water			/
1. Asolution of 8u g/ml in hydrochloric acid exhibits absorption				acid exhibits absorption	
		max.at277nm;			Conforms
Identification		2. Orange red precipitate is formed			Conforms
Tests		3. The IR spectrum conforms to that of the reference standard			Conforms
		4. A solution of it responds to the tests for lactate			Conforms
		Examine			
PH		4.5~5.5			5.0
Clarity and color of		0.05A 10mg/ml aqueous solution is clear and colorless. If any color			
solution		formed, the absorbance at 430nm is not more than 0.05.			0.025
Related substances		Any single impurity ≤ 0.5%			0.08%
		The sum of total impurities ≤ 1.0%			0.14%
Residual solvents		Ethanol≤0.5%			0.008%
Fluorine		≥4.3%			4.3%
Loss on drying		≤ 6.5%			3.7%
Residue on ignition		≤ 0.1%			0.05%
Heavy metals		≤20ppm			Conforms
Assay					
(non-aqueous		$(C_{17}H_{18}FN_3O_3.C_3H_6O_3, on the dried basis) \ge 98.0\%$			99.1%
titration)					

Checker Xu Dong Re-checker Lu Xiaoping Approval Liu Wu

Conclusion Conforms to pharmacopoeia of P.R.China(2000 edition)specification for ciprofloxacin lactate.

COA Issuer Quality Control Team-Technology Department of Hefei TNJ Chemical Industry Co.,Ltd.