

Product Data Sheet

Cat # ABT-180-05	<b>Lomefloxacin, Hydrochloride (Pharma Grade)</b>	Size: 5g
Cat # ABT-180-25	<b>Lomefloxacin, Hydrochloride (Pharma Grade)</b>	Size: 25g or Bulk

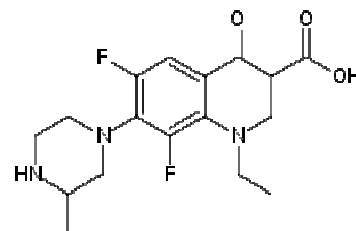
General Information

**Lomefloxacin** hydrochloride (sold under the following brand names in English speaking countries Maxaquin, Okacyn, Uniquin), is a fluoroquinolone antibiotic, used to treat bacterial infections including bronchitis and urinary tract infections. It is also used to prevent urinary tract infections prior to surgery. Lomefloxacin is associated with phototoxicity and central nervous system adverse effects.

October 2008 the FDA added the following Black Box Warning to the product insert for Maxaquin:

**WARNING:** Fluoroquinolones, including Maxaquin, are associated with an increased risk of tendinitis and tendon rupture in all ages. This risk is further increased in older patients usually over 60 years of age, in patients taking corticosteroid drugs, and in patients with kidney, heart or lung transplants To reduce the development of drug-resistant bacteria and maintain the effectiveness of Maxaquin and other antibacterial drugs, Maxaquin should be used only to treat or prevent infections that are proven or strongly suspected to be caused by bacteria'.

Lomefloxacin is unique in that it forms a magnesium chelate with itself. The chelate is formed between the 2-carbonyl group of two separate lomefloxacin molecules.



**Molecular Formula:**  
(C<sub>17</sub>H<sub>19</sub>F<sub>2</sub>N<sub>3</sub>O<sub>3</sub>)  
**Molecular Weight:**  
351.348 g/mol

Analysis Test	Specification	Results	
Description	White or off-white crystalline powder	white crystalline powder	
Identification	Identification UV	Maximum absorption at 287±2nm	287nm
	Identification-HPLC	Peak retention time should be the same as the reference	Complies
	Identification-IR	Conform to Standard Spectrum	Complies
Absorbance	≤0.25 at 450nm	Complies	
Acidity	3.5~4.5	4.0	
Melting point(°C)	290°C -300°C	295°C	
Clarity of solution	Should comply	Complies	
Loss on drying	≤0.5%	0.4%	
Residue on ignition	≤0.1%	0.05%	
Heavy metals	≤20ppm	Complies	
Related substances	Any individual impurity≤0.5%	Complies	
	Total impurities≤2.0%	Complies	
Residual Solvents	Ether	≤0.5%	Complies
	Ethanol	≤0.5%	
	Acetone	≤0.5%	
Solubility	250 mg + 5.0 mL 1 NaOH		
Assay(on the dried basis)	89.2%。	92.0%	
Conclusion	QC Passed		

ABT-180-05

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