

Product Name:	Lomefloxacin hydrochloride
Product Number:	L005
CAS Number:	98079-52-8
Molecular Formula:	$C_{17}H_{19}F_2N_3O_3 \cdot HCl$
Molecular Weight:	387.81
Form:	Powder
Description:	Lomefloxacin HCl is a difluorinated quinolone antibiotic with a broad spectrum of activity. Lomefloxacin HCl has a similar activity level as ofloxacin.
Mechanism of Action:	Fluoroquinolone antibiotics target bacterial DNA gyrase, an enzyme which reduces DNA strain during replication. Because DNA gyrase is required during DNA replication, subsequent DNA synthesis and ultimately cell division is inhibited.
Spectrum:	Broad spectrum of activity. Targets Gram positive and Gram negative bacteria.
References:	Piddock, L. J. "Mechanism of Action of Lomefloxacin." Antimicrobial Agents and Chemotherapy 34.6 (1990): 1088-093. Nih.gov. Web. 24 Mar. 2014.