LYFLOX
Lomefloxacin

Composition
Lyflox Eye Drops contains Lomefloxacin Hydrochloride INN 0.3% w/v.

Description
Lomefloxacin, a diflurinated quinolone derivative, is a bacterial gyrase inhibitor. It is effective against gram-positive and gram-negative bacteria. It interferes with bacterial DNA related processes like initiation, elongation and termination phases of replication, transcription, DNA repairing, recombination, transposition, supercoiling and relaxation of DNA. A-subunit of bacterial enzyme gyrase (topoisomerase II) is the target molecule for quinolones. The formation of a stable complex between the quinolone and the whole gyrase teramer A2B2 leads to impair enzyme functions which ultimately leads to the killing of sensitive bacteria. The acute toxicity of Lomefloxacin following systemic and topical ophthalmic application is low. No clinical studies are available about the efficacy in the cases of infections with chlamydia.

Indication
Lyflox Eye Drops is indicated in the bacterial infection of the anterior segment of eye including conjunctivitis, blepharitis, blepharo-conjunctivitis which are due to Lomefloxacin susceptible organisms and staphylococcus aureus induced corneal ulcers.

Dosage and Administration
Adult and child (over 1 year of age): Instill one Drop, 2-3 times daily into the lower conjunctival sac. At the beginning of the treatment, Lyflox Eye Drops should be used more frequently and apply 5 drops within 20 minutes or one drop hourly for 6-10 hours. Treatment should be continued for 7-9 days.

Side effect
Local irritation, slight and transient burning immediately after instillation, rarely hypersensitivity effects, allergic reactions, asthma, dyspnea, urticarea, erythema, pruritus have been reported after the use of Lomefloxacin eye drops.

Precaution
Long-term use with antibiotics may enhance development of secondary fungal infections or may support growth of non-susceptible bacteria. Some isolated cases of phototoxicity have been reported after systemic but not after topical ophthalmic use. During treatment with Lomefloxacin intensive exposure to sunlight or UV radiation should be completely avoided.

Contraindication
Lyflox Eye Drops is contraindicated in the patient with known hypersensitivity to Lomefloxacin or other quinolones.

Use in pregnancy and lactation
Clinical studies on the use of Lomefloxacin eye drops during pregnancy or lactation has not been established. So, the drug should only be used when the benefit outweigh the potential risk for the foetus or the infant. However, animal studies revealed that after systemic use Lomefloxacin at a dose of 20 mg/kg, it passes the placental barrier and is excreted into the maternal milk.
Drug interaction
Ophthalmic preparation containing heavy metals, such as Zn & Cu should not be used within 15 minutes of application of Lomefloxacin to avoid reduction of efficacy. Bacteriostatic ophthalmic antibiotics should not be used concomitantly with Lomefloxacin eye drops.

Presentation
Lyflox Eye Drops: Each plastic dropper bottle contains 5 ml sterile eye drops.

Manufactured by
The IBN SINA Pharmaceutical Industry Ltd.
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