



جمجوم فارما  
Jamjoom Pharma

Jamjoom Pharmaceuticals Company  
Jeddah, Kingdom of Saudi Arabia

Product: Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

### **1.3 Product Information**

#### **1.3.1 Summary of Product Characteristics (SmPC)**

Enclosed



Product: Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

### 1.3.1 Summary of Product Characteristics (SPC)

#### 1. Name of the medicinal product

Optiflox 3 mg/ml Eye Drops, Solution.

#### 2. Qualitative and quantitative composition

One millilitre contains 3 mg Ofloxacin.

For a full list of excipients, see section 6.1.

#### 3. Pharmaceutical form

Eye drops, solution.

Clear, light yellow with greenish tinge , practically free from particulate matter, filled in 10 ml LOPE opaque bottles .

#### 4. Clinical particulars

##### 4.1 Therapeutic indications

Ofloxacin is indicated for the topical treatment of external ocular infections (such as conjunctivitis and keratoconjunctivitis) in adults and children caused by Ofloxacin - sensitive organisms. Safety and efficacy in the treatment of ophthalmia neonatorum has not been established.

##### 4.2 Posology and method of administration

Topical ocular instillation.

For all ages: one to two drops in the affected eye(s) every two to four hours for the first two days and then four times daily. The length of treatment should not exceed ten days.

##### 4.3 Contraindications

Ofloxacin is contra-indicated in individuals who have shown hypersensitivity to Ofloxacin, any of its excipients or any other quinolones.



**Product:** Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

#### 4.4 Special warnings and precautions for use

Ofloxacin is not for injection.

Safety and effectiveness in infants below the age of one year have not been established.

Serious and occasionally fatal hypersensitivity (anaphylactic/anaphylactoid) reactions, some following the first dose, have been reported in patients receiving systemic quinolones, including Ofloxacin. Some reactions were accompanied by cardiovascular collapse, loss of consciousness, angioedema (including laryngeal, pharyngeal or facial oedema), airway obstruction, dyspnoea, urticaria, and itching.

If an allergic reaction to Ofloxacin occurs, discontinue the drug. Use Ofloxacin with caution in patients who have exhibited sensitivities to other quinolones antibacterial agents.

When using Ofloxacin the risk of rhinopharyngeal passage which can contribute to the occurrence and the diffusion of bacterial resistance should be considered. As with other anti-infectives, prolonged use may result in overgrowth of non-susceptible organisms.

If worsening infection occurs, or if clinical improvement is not noted within a reasonable period, discontinue use and institute alternative therapy.

##### Cardiac disorders

Caution should be taken when using fluoroquinolones, including Ofloxacin in patients with known risk factors for prolongation of the QT interval such as, for example:

- congenital long QT syndrome
- concomitant use of drugs that are known to prolong the QT interval (e.g. Class IA and III anti-arrhythmics, tricyclic antidepressants, macrolides, antipsychotics)
- uncorrected electrolyte imbalance (e.g. hypokalaemia, hypomagnesaemia)
- cardiac disease (e.g. heart failure, myocardial infarction, bradycardia)

(See section 4.2 Elderly, section 4.5, section 4.8, section 4.9).

Elderly patients and women may be more sensitive to QTc-prolonging medications. Therefore, caution should be taken when using fluoroquinolones, including EXOCIN®, in these populations.

Use Ofloxacin with caution in patients who have exhibited sensitivities to other quinolone antibacterial agents.

Data are very limited to establish efficacy and safety of Ofloxacin eye drops 0.3% in the treatment of conjunctivitis in neonates.

The use of Ofloxacin eye drops in neonates with ophthalmia neonatorum caused by *Neisseria gonorrhoeae* or *Chlamydia trachomatis* is not recommended as it has not been evaluated in such patients.

Use in elderly: No comparative data are available with topical dosing in elderly versus other age groups.

Clinical and non-clinical publications have reported the occurrence of corneal perforation in patients with pre-existing corneal epithelial defect or corneal ulcer, when treated with topical fluoroquinolone antibiotics. However, significant confounding factors were involved in many of these reports, including advanced age, presence of large ulcers, concomitant ocular conditions (e.g. severe dry eye), systemic



جمجوم فارما  
Jamjoom Pharma

Jamjoom Pharmaceuticals Company  
Jeddah, Kingdom of Saudi Arabia

**Product:** Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

inflammatory diseases (e.g. rheumatoid arthritis), and concomitant use of ocular steroids or non-steroidal anti-inflammatory drugs. Nevertheless, it is necessary to advise caution regarding the risk of corneal perforation when using product to treat patients with corneal epithelial defects or corneal ulcers. Corneal precipitates have been reported during treatment with topical ophthalmic Ofloxacin. However, a causal relationship has not been established.

Long-term, high-dose use of other fluoroquinolones in experimental animals has caused lenticular opacities. However, this effect has not been reported in human patients, nor has it been noted following topical ophthalmic treatment with Ofloxacin for up to six months in animal studies including studies in monkeys.

Ofloxacin contains the preservative Benzalkonium chloride which may cause ocular irritation and discolour soft contact lenses.

Sun or UV-exposition should be avoided during use of Ofloxacin due to the potential for photosensitivity.

Use of contact lenses is not recommended in patients receiving treatment for an eye infection.

Patients should remove contact lenses prior to application and wait at least 15 minutes before reinsertion. Benzalkonium chloride is known to discolour soft contact lenses.

#### **4.5 Interaction with other medicinal products and other forms of interaction**

No interaction studies have been performed.

It has been shown that the systemic administration of some quinolones inhibits the metabolic clearance of caffeine and theophylline. Drug interaction studies conducted with systemic Ofloxacin have demonstrated that metabolic clearance of caffeine and theophylline are not significantly affected by Ofloxacin.

Although there have been reports of an increased prevalence of CNS toxicity with systemic dosing of fluoroquinolones when used concomitantly with systemic nonsteroidal anti-inflammatory drugs (NSAIDs), this has not been reported with the concomitant systemic use of NSAIDs and Ofloxacin.

Ofloxacin, like other fluoroquinolones, should be used with caution in patients receiving drugs known to prolong the QT interval (e.g. Class IA and III anti-arrhythmics, tricyclic antidepressants, macrolides, antipsychotics) (see section 4.4).

#### **4.6 Fertility, pregnancy and lactation**

**Use in pregnancy:** There have been no adequate and well-controlled studies performed in pregnant women. Since systemic quinolones have been shown to cause arthropathy in immature animals, it is recommended that Ofloxacin not be used in pregnant women.

**Use during lactation:** Because Ofloxacin and other quinolones taken systemically are excreted in breast milk, and there is potential for harm to nursing infants, a decision should be made whether to temporarily discontinue nursing or not to administer the drug, taking into account the importance of the drug to the mother.



جمجوم فارما  
Jamjoom Pharma

Jamjoom Pharmaceuticals Company  
Jeddah, Kingdom of Saudi Arabia

Product: Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

#### 4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed.

Transient blurring of vision may occur on instillation of eye drops. Do not drive or operate hazardous machinery unless vision is clear.

#### 4.8 Undesirable effects

##### General

Serious reactions after use of systemic Ofloxacin are rare and most symptoms are reversible. Since a small amount of Ofloxacin is systemically absorbed after topical administration, side-effects reported with systemic use could possibly occur.

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness. The following terminologies have been used in order to classify the occurrence of undesirable effects

Frequency categories: Very common ( $\geq 1/10$ ); Common ( $\geq 1/100$  to  $< 1/10$ ); Uncommon ( $\geq 1/1,000$  to  $< 1/100$ ); Rare ( $\geq 1/10,000$  to  $< 1/1,000$ ); Very rare ( $< 1/10,000$ ) and not known (cannot be estimated from the available data):

##### Immune System Disorders

Not Known: Hypersensitivity reaction including signs or symptoms of Eye allergy (such as Eye pruritus and Eyelid pruritus) and Anaphylactic reactions (such as angioedema, dyspnea, anaphylactic shock, oropharyngeal swelling, facial oedema and tongue swollen)

##### Nervous System Disorders

Not known: Dizziness

##### Eye Disorders

Common: Eye irritation; Ocular discomfort

Not known: Keratitis; Conjunctivitis; Vision blurred; Photophobia; Eye oedema; Foreign body sensation in eyes; Lacrimation increased; Dry eye; Eye pain; Ocular hyperaemia; Periorbital oedema (including eyelid oedema)

##### Cardiac disorders

Not known: ventricular arrhythmia and torsades de pointes (reported predominantly in patients with risk factors for QT prolongation); ECG QT prolonged (see section 4.4 and 4.9)

##### Gastrointestinal Disorders

Not known: Nausea

##### Skin and Subcutaneous Tissue Disorders

Not Known: Stevens-Johnson syndrome; Toxic epidermal necrolysis



جمجوم فارما  
Jamjoom Pharma

Jamjoom Pharmaceuticals Company  
Jeddah, Kingdom of Saudi Arabia

Product: Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

#### 4.9 Overdose

In the event of overdose, symptomatic treatment should be implemented. ECG monitoring should be undertaken, because of the possibility of QT interval prolongation.

### 5. Pharmacological properties

#### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Ophthalmologicals, anti-infectives, fluoroquinolones

ATC code: S01AX11.

Ofloxacin is a synthetic fluorinated 4-quinolone antibacterial agent with activity against a broad spectrum of Gram negative and to a lesser degree Gram positive organisms.

Ofloxacin has been shown to be active against most strains of the following organisms both in vitro and clinically in ophthalmic infections. Clinical trial evidence of the efficacy of Ofloxacin against *S. pneumoniae* was based on a limited number of isolates.

*Gram-negative bacteria:* *Acinetobacter calcoaceticus* var. *anitratum*, and *A. calcoaceticus* var. *iwoffi*; *Enterobacter* Sp. including *E. cloacae*; *Haemophilis* Sp, including *H. influenza* and *H. aegyptius*; *Klebsiella* Sp., including *K. Pneumoniae*; *Moraxella* Sp., *Morganella morganii*; *Proteus* Sp., including *P. Mirabilis*; *Pseudomonas* Sp.; including *P. Aeruginosa*, *P. cepacia*, and *P. fluorescens*; and *Serratia* Sp., including *S. marcescens*.

*Gram-positive bacteria:* *Bacillus* Sp.; *Corynebacterium* Sp.; *Micrococcus* Sp.; *Staphylococcus* Sp., including *S. aureus* and *S. epidermidis*; *Streptococcus* Sp., including *S. Pneumoniae* (see above), *S. viridans* and Beta-haemolytic.

The primary mechanisms of action is through inhibition of bacterial DNA gyrase, the enzyme responsible for maintaining the structure of DNA.

Ofloxacin is not subject to degradation by beta-lactamase enzymes nor is it modified by enzymes such as aminoglycoside adenylases or phosphorylases, or chloramphenicol acetyltransferase.



جمجوم فارما  
Jamjoom Pharma

Jamjoom Pharmaceuticals Company  
Jeddah, Kingdom of Saudi Arabia

**Product:** Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

## 5.2 Pharmacokinetic properties

After ophthalmic instillation, Ofloxacin is well maintained in the tear-film.

In a healthy volunteer study, mean tear film concentrations of Ofloxacin measured four hours after topical dosing (9.2 µg/g) were higher than the 2µg/ml minimum concentration of Ofloxacin necessary to inhibit 90% of most ocular bacterial strains (MIC<sub>90</sub>) in-vitro.

Maximum serum Ofloxacin concentrations after ten days of topical dosing were about 1000 times lower than those reported after standard oral doses of Ofloxacin, and no systemic side-effects attributable to topical Ofloxacin were observed.

## 5.3 Preclinical safety data

There are no toxicological safety issues with this product in man as the level of systemic absorption from topical ocular administration of Ofloxacin is minimal.

Animal studies in the dog have found cases of arthropathy in weight bearing joints of juvenile animals after high oral doses of certain quinolones. However, these findings have not been seen in clinical studies and their relevance to man is unknown.

## 6. Pharmaceutical particulars

### 6.1 List of excipients

- ✓ Benzalkonium chloride
- ✓ Sodium chloride
- ✓ Hydroxypropyl Methyl Cellulose
- ✓ Sodium hydroxide and/or Hydrochloric acid (for pH adjustment)
- ✓ Water for Injection

### 6.2 Incompatibilities

Not applicable.

### 6.3 Shelf life

- **Unopened:** 24 Months
- **After first of opening:** Use within 4 weeks of opening

### 6.4 Special precautions for storage

Do not store above 30°C.



جمجوم فارما  
Jamjoom Pharma

Jamjoom Pharmaceuticals Company  
Jeddah, Kingdom of Saudi Arabia

Product: Optiflox Ophthalmic Solution (Ofloxacin 3 mg/mL)

#### **6.5 Nature and contents of container**

5 mL of Optiflox Oph. Sol. filled in 10mL LDPE Opaque bottle, LDPE nozzle with HDPE cap.

#### **6.6 Special precautions for disposal and other handling**

There is no special requirement for disposal.

Any unused product or waste material should be disposed of in accordance with local requirements.

#### **7. Marketing authorisation holder**

Jamjoom Pharmaceuticals Company  
Plot No. ME 1:3, Phase V, Industrial City, Jeddah  
Postal address:  
P.O. Box 6267  
Jeddah 21442, Saudi Arabia.  
Tel: 00966-12-6081111  
Fax: 00966-12-6081222  
E-mail: [jpharma@jamjoompharma.com](mailto:jpharma@jamjoompharma.com)  
Website: [www.jamjoompharma.com](http://www.jamjoompharma.com)

#### **8. Marketing authorisation number(s)**

B4-8066

#### **9. Date of first authorisation/renewal of the authorisation**

20-Dec-2017

#### **10. Date of revision of the text**

Sep 2022