## Fortymox

nic solution 0.5% as base

DESCRIPTION:
FORTYMOX (moxifloxacin HCl ophthalmic solution) 0.5% is a sterile ophthalmic solution. Moxifloxacin is a four spectrum of Gram-positive and Gram-negative ocular pathogen, atypical microorganisms and anaerobes.

Chemical Name:

1-Cyclopropyl-6-fluoro-1, 4-dihydro-8-methoxy-7-[(4aS,7aS)-octahydro-6-fl-pyrrolo[[3,4-b]pyridin-6-yl]-4-oxo-3- quinolinecarboxylic acid, monohydrochloride. Monifloxacin differs from other quinolones in that it has a methoxy function at the 8 position, and an S, S- configured diszabicyclononyl ring moiety at the 7-position. Monifloxacin hydrochloride is a slightly yellow to yellow

Phartmacoldnetics/Phartmacodynamics:

Following topical ocular stimulation of PORTYMOX, mosifloxacin was absorbed to systemic deculation. Plasma concentrations of mosifloxacin were measured in 21 male and female subjects who received bilazeral topical ocular doses of FORTYMOX solution 3 times a day for 4 days. The mean steady-state Cmax and AUC were 2.7mg/ml and 41.9 mg-tn/ml, respectively. These exposure values are approximately 1,600 and 1,200 times lower than the mean Cmax and AUC reported after well tolerated therapeutic 400 mg oral dose of moxificoacin. The plasma half life of moxificoacin was resummed to be 13 hours.

Microbiology:

Mosifioxacin has in virro activity against wide range of gram-positive and gram-negative microorganisms, Moxifioxacin inhibits the topolsomerase II (DNA gyrase) and topoisomerase IV required for bacterial DNA replication, transcription, repair, and recombination. The C8 methoxy moiety of moxifioxacin also besens the selection of resistant mutants of gram positive bacteria compared to the C8+ moiety found in older fluoroquinolones. Moxifioxacinis bulky C7 substituent group incloners with the quinolone efflux pump mechanism of bacteria. Moxifioxacin is often bacteriacida at concentrations equal to or slightly generate than inhibitory concentration. Protoquinolones, including moxifioxacin, differ in chemical structures and mode of action from best lacturas antibiotics, marcolides and antinophycosides, and therefore may be active against bacterial resistant to their activation and objective and the concentration of the following microorganisms, both in vitro and in clinical infections as described in the INDICATIONS AND USAGE section:

# Gram-positive bacteria: Gram-positive bactedia: Carposlastriam species, Minobasterium species, Mirrosaus bitau (including crythromycin, gentamycin, tetracycline, and/or trimethoprim resistant strains), Mycobacterium species, Stabybioscus ameras (including methicillin, crythromycin, gentamycin, ofloracin, tetracycline, and/or trimethoprim resistant strains) Stabybioscus pidermidis (including methicillin, crythromycin, gentamycin, ofloracin, tetracycline, and/or trimethoprim resistant strains) Stabybioscus bensibias (including methicillin, crythromycin, gentamycin, ofloracin, tetracycline, and/or trimethoprim resistant strains) Stabybioscus bensibias (including enthicillin, crythromycin, gentamycin, ofloracin, tetracycline, and/or trimethoprim resistant strains) Stabybioscus bensibias (including erythromycin, tetracycline, and/or trimethoprim resistant strains) Straptocous mitis (including penicillin, crythromycin, tetracycline, and/or trimethoprim resistant strains) Straptocous praesovata (including penicillin, crythromycin, tetracycline, and/or trimethoprim resistant strains) Gram-negative bacteria: Ainstibators species, Hammiphias alonas (including ampicillin resistant strains)

Gram-negative bac

ative bacteria: ter species, Haemophilus alconae (including ampicillin resi lus influenza (including ampicillin resistant strains ) meumonia, Morazella catarrbalit, Pseudomonas aeruginosa

### Other microorganisms:

Chlasydia tructomati:

Moxifioracin has been shown to be active in vitro against most strain of the following organisms; however, the clinical significance of these data is unknown.

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Attycia Mysobasterium, Chlanydia pneumonia, Legionella pneumophila, Mysobasterium avium, Mysobasterium marinum, Mysoplasma pneumonia.
Clinical studies:

Moxilonacain solution has been studied in patients from nembrane to adults including in the control of the c

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special populations:

The pharmacokinetic parameters of oral moxifloxacin are not significantly altered by mild, moderate, or severe renal impairment. No dosage adjustment of FORTYMOX solution is necessary in patients with renal impairment. The pharmacokinetic parameters of oral moxifloxacin were not significantly altered in patients with mild to moderate hepatic insufficiency (child pugh class A and B). Studies were not performed in patients with severe hepatic inspairment (child pugh class C). Because of low systemic exposure by the topical route of the administration, no dosage adjustment of Moxifloxacin solution is needed in patients with hepatic impairment.

### FORTYMOX solution is indicated for the treatment of bacterial conjunctivitis caused by susceptible strains of the following organisms

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Grame-positive bacteria:

Corpnehavirum species, Microbasterium sestiana trains)

Suphjonosau spalarmidit (including methicillin, erythromycin, gentamycin, ofloxacin, tetracycline, and/or trimethoprim resistant strains)

Suphjonosau bannini (including methicillin, erythromycin, gentamycin, ofloxacin, tetracycline, and/or trimethoprim resistant strains)

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Suphjonosau bannini (including erythromycin resistant strains)

Suphjonosau bannini (including erythromycin, tetracycline, and/or trimethoprim resistant strains)

Suphjonosau pannonini (including erythromycin, tetracycline, and/or trimethoprim resistant strains)

Suphjonosau pannonini (including epinicillin, erythromycin, tetracycline, and/or trimethoprim resistant strains)

Suphjonosau pannonini (including epinicillin, erythromycin, tetracycline, and/or trimethoprim resistant strains)

Gram-negative bacteria:

Anisthabater species, Hammobilista alonau (including ampicillin resistant strains)

xram-negative bactetia:

Animohadare species, Hamophikus alomas (including ampheillin resistant strains)

Hamophikus influency (including ampicillin resistant strains)

Khhitilla pausumata, Moracella catarribalis, Pseudomonas aeruginosa

Thier micro-organisma:

Chlampida proham-iri

### FORTYMOX solution is contraindicated in patients with a history of hypersensitivity to moxifloxacin, to other quinolones, or to any of the components in this medication.

WARVINUS: In patients receiving systemically administered quinolones, including monifloxacin, setious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported, some following the first dose. Some reactions were accompanied by cardiovascular collapse, loss of consciousness, angioedema (including laryngeal, pharyngeal or facial edema), airway obstruction, dyspnea, urticaria, and iching If an allergic reaction to monificacian occurs, discontinue use of the drug Serious acute hypersensitivity reactions may require immediate emergency treatment. Oxygen and airway management should be administered as clinically indicated.

PRECAUTIONS: General: As with other anti-infectives, prolonged use may result in overgrowth of non-susceptible organisms, including fungi. If superinfection occurs, discontinue use and institute alternative therapy. Whenever clinical judgment discasts, the patient should be examined with the aid of magnification, such as slit-lamp biomicroscopy, and, where appropriate, fluorescein staining. Patients should be advised not to wear contact leases if they have signs and symptoms of bacterial conjunctivitis.

PATIENT INFORMATION:

ANTENT INPORMATION:

Avoid contaminating the applicator tip with material from the eye, fingers or other source.

Systemically administered quinolones including moxifloxacin have been associated with hypersensitivity reactions, even following a single dose

Discontinue use immediately and contact your physician at the first sign of a rash or allergic reaction.

DRUG INTERACTIONS:

NUC INTERACTIONS:

While Drug drug interaction studies have not been conducted with Moxifloxacin solution, they have been conducted with the oral product at much higher systemic exposures than are achieved by topical ocular route. Unlike some other fluoroquinolones, no clinically significant drug-drug interaction between systemically administered moxifloxacin and itraconazole, theophylline, warferin, digoxin, oral contraceptives, probindical, annition or glybruide have been observed. In write oxidies inclinate that moxification does not inhibit CYP3A4, CYP2D6, CYP2C9, CYP2C19, or CYP1A2 indicating that moxificoxacin is unlikely to alter the pharmacokinetics of drugs metabolized by these cytochrome P450 isosymes.

indicating that mostification is unlikely to after the pharmacokinetics of drugs metabolized by these cytochrome P490 isosymes.

Garcinogenesia, Mutagenesia, Impairment of Fertility:

Mosificación was not musigenic in four bacterial strains used in the Ames Salmonella reversion assay. As with other quiolones, the positive response observed with mosificación in Strain TA

102 using the same assay may be due to the inhibition of DNA gyrase. Mosificación was not musagenic in the CHO/HGPRT mammalian cell gene mustion assay. An equivocal result was
obtained in the same assay when v79 cells were used. Mosificación vas elastogenic in the v79 chromosome aberration assay, but it did not induce unscheduled DNA synthesis in cultured rat
hepatocytes. There was no evidence of genotoxicity in vivo in a micronucleus test or a dominant lethal test in mice. Mosificación had no effect on fertility in male and fermale rats at oral doses as
high as 500 mg/g/d/as, approximately 21,700 dimensi the highest recommended total daily human ophibalmic dose. Long term studies in animats to determine the carcinogenic potential of
mosificación have not been performed. However, in an accelerated study with initiators and promoters, mosificación was not carcinogenic in rats following up to 38 weeks of oral dosing at
500 ms/le/d viv.

### 500 mg/kg/day. Pregnancy: Teratogenic Effects:

Pregnancy: Testogenic Effects:

Pregnancy Category: C. Monifiozacia was not testogenic when administered to pregnant rats during organogenesis at oral doses as high as 500 mg/kg/day (approximately 21,700 times the highest recommended total daily human ophthalmic dose), however, decreased fetal body weights and slightly delayed fetal skeletal development were observed. There was no evidence of testogenicity when pregnant Cromoniques monkers were given on all doses as high as 100 mg/kg/day (approximately 43,000 times the highest recommended total daily human ophthalmic dose). An increased incidence of smaller fetuses was observed at 100 mg/kg/day; Since there are no adequate and well-controlled studies in pregnant women, FORTYMOX solution should be used during pregnancy only if the potential benefit issuifies the potential risk to the fetus.

Nursing Mothers: Monificacion has not been measured in human milk, although it can be presumed to be excreted in human milk. Caution should be exercised when FORTYMOX solution is administered in a nursine mother.

Pediatric Des : FORTYMOX is administrated to a musting mother.

Fediatric Des : FORTYMOX solution has been shown to be safe and effective in pediatric patients including neonates. There is no evidence that the ophthalmic administration of FORTYMOX solution has any effect on weight bearing joints, even though oral administration of some quinolones has been shown to cause arthropathy in immature animals.

Geriatric Use: No overall differences in safety and effectiveness have been observed between elderly and younger patients.

UVERBE REACTIONS:

MOVERES REACTIONS:

No serious ophthalmic or systemic adverse reactions related to FORTYMOX solution were reported. Adverse reactions were generally mild and occurred at an incidence similar to placebo (vehicle). The most frequently reported event was transient ocular discomfort (blurring/stinging) reported at an incidence of 2.9%. Other reported events included headache, kerstitis, ocular pain, ocular printins, ocular lyneremia, phavyagitis and subconjunctival hemorrhage which were reported at an incidence of 0.5% to 1%.

Patriambaling Experience: Exacerbation of myasthenia gravis.

Revised : March 2016

Instill 1 drop in the infected eye 3 times a day for 4 days

Pack:
Carton box containing white plastic (LDPB) 10 ml / 5 ml bottle with dropper, white plastic cover & insert les
Storage:
Store at temperature not exceeding 30°C.
Don't use longer than 1 month after first opening.
Medical prescription only

Manufactured by Orchidia Pharmaceutical Industries Industrial Zone - Al-Obour City, Egypt

