DESCRIPTION:
Neomycin and Polymyxin B Sulfates and Bacitracin Zinc Ophthalmic Ointment USP is a sterile antimicrobial ointment for ophthalmic use.

Each Gram Contains:
ACTIVES: Neomycin Sulfate (equivalent to 3.5 mg neomycin base), Polymyxin B Sulfate equivalent to 10,000 polymyxin B units, and Bacitracin Zinc equivalent to 400 bacitracin units; INACTIVES: White Petrolatum, Mineral Oil.

Neomycin sulfate is the sulfate salt of neomycin B and C, which are produced by the growth of *Streptomyces fradiae* Waksman (Fam. Streptomycetaceae). It has a potency equivalent of not less than 600 micrograms of neomycin standard per milligram, calculated on an anhydrous basis. The structural formulae are:

[Diagram of Neomycin structure]

Polymyxin B sulfate is the sulfate salt of polymyxin B₁ and B₂ which are produced by the growth of *Bacillus polymyxa* (Prazmowski) Migula (Fam. Bacillaceae). It has a potency of not less than 6,000 polymyxin B units per milligram, calculated on an anhydrous basis. The structural formulae are:

[Diagram of Polymyxin structure]

Bacitracin zinc is the zinc salt of bacitracin, a mixture of related cyclic polypeptides (mainly bacitracin A) produced by the growth of an organism of the *licheniformis* group of *Bacillus subtilis* var Tracy. It has a potency of not less than 40 bacitracin units per milligram.
The structural formula for bacitracin A is:

CLINICAL PHARMACOLOGY:
A wide range of antibacterial action is provided by the overlapping spectra of neomycin, polymyxin B sulfate, and bacitracin.

Neomycin is bactericidal for many gram-positive and gram-negative organisms. It is an aminoglycoside antibiotic which inhibits protein synthesis by binding with ribosomal RNA and causing misreading of the bacterial genetic code.

Polymyxin B is bactericidal for a variety of gram-negative organisms. It increases the permeability of the bacterial cell membrane by interacting with the phospholipid components of the membrane.

Bacitracin is bactericidal for a variety of gram-positive and gram-negative organisms. It interferes with bacterial cell wall synthesis by inhibition of the regeneration of phospholipid receptors involved in peptidoglycan synthesis.

Microbiology: Neomycin sulfate, polymyxin B sulfate and bacitracin zinc together are considered active against the following microorganisms: *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Escherichia coli*, *Haemophilus influenzae*, *Klebsiella-Enterobacter* species, *Neisseria* species, and *Pseudomonas aeruginosa*. The product does not provide adequate coverage against *Serratia marcescens*.

INDICATIONS AND USAGE:
Neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment is indicated for the topical treatment of superficial infections of the external eye and its adnexa caused by susceptible bacteria. Such infections encompass conjunctivitis, keratitis and keratoconjunctivitis, blepharitis and blepharoconjunctivitis.

CONTRAINDICATIONS:
Neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment is contraindicated in those individuals who have shown hypersensitivity to any of its components.

WARNINGS:
NOT FOR INJECTION INTO THE EYE.

Neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment should never be directly introduced into the anterior chamber of the eye. Ophthalmic ointments may retard corneal wound healing.

Topical antibiotics, particularly neomycin sulfate, may cause cutaneous sensitization. A precise incidence of hypersensitivity reactions (primarily skin rash) due to topical antibiotics is not known. The manifestations of sensitization to topical antibiotics are usually itching, reddening, and edema of the conjunctiva and eyelid. A sensitization reaction may manifest simply as a failure to heal. During long-term use of topical antibiotic products, periodic examination for such signs is advisable, and the patient...
should be told to discontinue the product if they are observed. Symptoms usually subside quickly on withdrawing the medication. Application of products containing these ingredients should be avoided for the patient thereafter (see PRECAUTIONS: General).

PRECAUTIONS:

General

As with other antibiotic preparations, prolonged use of neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment may result in overgrowth of nonsusceptible organisms including fungi. If superinfection occurs, appropriate measures should be initiated.

Bacterial resistance to neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment may also develop. If purulent discharge, inflammation, or pain becomes aggravated, the patient should discontinue use of the medication and consult a physician.

There have been reports of bacterial keratitis associated with the use of topical ophthalmic products in multiple-dose containers which have been inadvertently contaminated by patients, most of whom had a concurrent corneal disease or a disruption of the ocular epithelial surface (see PRECAUTIONS: Information for Patients).

Allergic cross-reactions may occur which could prevent the use of any or all of the following antibiotics for the treatment of future infections: kanamycin, paromomycin, streptomycin, and possibly gentamicin.

Information for Patients:

Patients should be instructed to avoid allowing the tip of the dispensing container to contact the eye, eyelid, fingers, or any other surface.

The use of this product by more than one person may spread infection.

Patients should also be instructed that ocular products, if handled improperly, can become contaminated by common bacteria known to cause ocular infections. Serious damage to the eye and subsequent loss of vision may result from using contaminated products (see PRECAUTIONS: General).

If the condition persists or gets worse, or if a rash or allergic reaction develops, the patient should be advised to stop use and consult a physician. Do not use this product if you are allergic to any of the listed ingredients.

Keep tightly closed when not in use. Keep out of reach of children.

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Long-term studies in animals to evaluate carcinogenic or mutagenic potential have not been conducted with polymyxin B sulfate or bacitracin. Treatment of cultured human lymphocytes in vitro with neomycin increased the frequency of chromosome aberrations at the highest concentration (80 mcg/mL) tested; however, the effects of neomycin on carcinogenesis and mutagenesis in humans are unknown.

Polymyxin B has been reported to impair the motility of equine sperm, but its effects on male or female fertility are unknown. No adverse effects on male or female fertility, litter size or survival were observed in rabbits given bacitracin zinc 100 gm/ton of diet.

Pregnancy:

Teratogenic Effects:

Pregnancy Category C. Animal reproduction studies have not been conducted with neomycin sulfate, polymyxin B sulfate, or bacitracin. It is also not known whether neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment can cause fetal harm when administered to a pregnant woman or can
affect reproduction capacity. Neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment should be given to a pregnant woman only if clearly needed.

**Nursing Mothers:**

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment is administered to a nursing woman.

**Pediatric Use:**

Safety and effectiveness in pediatric patients have not been established.

**ADVERSE REACTIONS:**

Adverse reactions have occurred with the anti-infective components of neomycin and polymyxin B sulfates and bacitracin zinc ophthalmic ointment. The exact incidence is not known. Reactions occurring most often are allergic sensitization reactions including itching, swelling, and conjunctival erythema (see WARNINGS). More serious hypersensitivity reactions, including anaphylaxis, have been reported rarely.

Local irritation on instillation has also been reported.

**DOSAGE AND ADMINISTRATION:**

Apply the ointment every 3 or 4 hours for 7 to 10 days, depending on the severity of the infection.

**HOW SUPPLIED:**

Neomycin and Polymyxin B Sulfates and Bacitracin Zinc Ophthalmic Ointment USP is supplied in a 3.5 g tube with an ophthalmic tip.

Prod. No. 03534

**DO NOT USE IF CAP AND NECKRING ARE NOT INTACT.**

**FOR OPHTHALMIC USE ONLY**

**Storage:**

Store between 15° - 30°C (59°- 86°F).

KEEP OUT OF REACH OF CHILDREN.

Revised November 2007

**Bausch & Lomb Incorporated**

Tampa, FL 33637

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9113600 (Folded)
9113700 (Flat)

**Principal Display Panel**
NDC 57319-343-25
Triple Antibiotic Ointment
Neomycin and Polymyxin B Sulfates and Bacitracin Zinc Ophthalmic Ointment USP (Sterile)
Net Wt. 3.5g Rx only

TRIPLE ANTIBIOTIC
neomycin sulfate, polymyxin b sulfate and bacitracin zinc ointment

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## Marketing Information

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**Labeler** - Phoenix Pharmaceutical, Inc. (150711039)

**Registrant** - Bausch & Lomb Incorporated (196603781)

## Establishment

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Revised: 11/2010