

**POLYMYXIN B SULFATE AND TRIMETHOPRIM- polymyxin b sulfate and trimethoprim sulfate solution/ drops**  
NuCare Pharmaceuticals, Inc.

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**Polymyxin B Sulfate and**

**Trimethoprim Ophthalmic Solution, USP\***

(Sterile)

**Rx only**

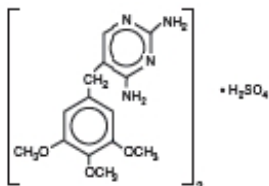
**FOR TOPICAL APPLICATION IN THE EYE**

\*Does not meet USP packaging specification for light resistance.

**DESCRIPTION**

Polymyxin B Sulfate and Trimethoprim Ophthalmic Solution, USP\* is a sterile antimicrobial solution for topical ophthalmic use. It has a pH of 4.0 to 6.2 and osmolality of 270 to 310 mOsm/kg.

**Chemical Names:** Trimethoprim sulfate, 2,4-diamino-5-(3,4 5-trimethoxybenzyl)pyrimidine sulfate (2:1), is a white, odorless, crystalline powder with a molecular weight of 678.72 and the following structural formula:



C<sub>28</sub>H<sub>38</sub>N<sub>8</sub>O<sub>10</sub>S  
Mol. Wt. 678.72

Polymyxin B sulfate is the sulfate salt of polymyxin B<sub>1</sub> and B<sub>2</sub> 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 mg, calculated on an anhydrous basis. The structural formula is:



## INDICATIONS AND USAGE

Polymyxin B sulfate and trimethoprim ophthalmic solution is indicated in the treatment of surface ocular bacterial infections, including acute bacterial conjunctivitis, and blepharoconjunctivitis, caused by susceptible strains of the following microorganisms: *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Streptococcus pneumoniae*, *Streptococcus viridans*, *Haemophilus influenzae* and *Pseudomonas aeruginosa*.\*\*

\*\*Efficacy for this organism in this organ system was studied in fewer than 10 infections.

## CONTRAINDICATIONS

Polymyxin B sulfate and trimethoprim ophthalmic solution is contraindicated in patients with known hypersensitivity to any of its components.

## WARNINGS

NOT FOR INJECTION INTO THE EYE. If a sensitivity reaction to polymyxin B sulfate and trimethoprim ophthalmic solution occurs, discontinue use. Polymyxin B sulfate and trimethoprim ophthalmic solution is not indicated for the prophylaxis or treatment of ophthalmia neonatorum.

## PRECAUTIONS

### General:

As with other antimicrobial preparations, prolonged use may result in overgrowth of nonsusceptible organisms, including fungi. If superinfection occurs, appropriate therapy should be initiated.

### Information for Patients:

Avoid contaminating the applicator tip with material from the eye, fingers, or other source. This precaution is necessary if the sterility of the drops is to be maintained.

If redness, irritation, swelling or pain persists or increases, discontinue use immediately and contact your physician. Patients should be advised not to wear contact lenses if they have signs and symptoms of ocular bacterial infections.

### Carcinogenesis, Mutagenesis, Impairment of Fertility:

**Carcinogenesis:** Long-term studies in animals to evaluate carcinogenic potential have not been conducted with polymyxin B sulfate or trimethoprim.

**Mutagenesis:** Trimethoprim was demonstrated to be non-mutagenic in the Ames assay. In studies at two laboratories no chromosomal damage was detected in cultured Chinese hamster ovary cells at concentrations approximately 500 times human plasma levels after oral administration; at concentrations approximately 1,000 times human plasma levels after oral administration in these same cells, a low level of chromosomal damage was induced at one of the laboratories. Studies to evaluate mutagenic potential have not been conducted with polymyxin B sulfate.

**Impairment of Fertility:** Polymyxin B sulfate has been reported to impair the motility of equine sperm, but its effects on male or female fertility are unknown.

No adverse effects on fertility or general reproductive performance were observed in rats given trimethoprim in oral dosages as high as 70 mg/kg/day for males and 14 mg/kg/day for females.

### **Pregnancy:**

#### **Teratogenic Effects:**

Pregnancy Category C. Animal reproduction studies have not been conducted with polymyxin B sulfate. It is not known whether polymyxin B sulfate can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity.

Trimethoprim has been shown to be teratogenic in the rat when given in oral doses 40 times the human dose. In some rabbit studies, the overall increase in fetal loss (dead and resorbed and malformed conceptuses) was associated with oral doses 6 times the human therapeutic dose.

While there are no large well-controlled studies on the use of trimethoprim in pregnant women, Brumfitt and Pursell, in a retrospective study, reported the outcome of 186 pregnancies during which the mother received either placebo or oral trimethoprim in combination with sulfamethoxazole. The incidence of congenital abnormalities was 4.5% (3 of 66) in those who received placebo and 3.3% (4 of 120) in those receiving trimethoprim and sulfamethoxazole. There were no abnormalities in the 10 children whose mothers received the drug during the first trimester. In a separate survey, Brumfitt and Pursell also found no congenital abnormalities in 35 children whose mothers had received oral trimethoprim and sulfamethoxazole at the time of conception or shortly thereafter.

Because trimethoprim may interfere with folic acid metabolism, trimethoprim should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

#### **Nonteratogenic Effects:**

The oral administration of trimethoprim to rats at a dose of 70 mg/kg/day commencing with the last third of gestation and continuing through parturition and lactation caused no deleterious effects on gestation or pup growth and survival.

#### **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 polymyxin B sulfate and trimethoprim ophthalmic solution is administered to a nursing woman.

#### **Pediatric Use:**

Safety and effectiveness in children below the age of 2 months have not been established (see WARNINGS).

#### **Geriatric Use:**

No overall differences in safety or effectiveness have been observed between elderly

and other adult patients.

## **ADVERSE REACTIONS**

The most frequent adverse reaction to polymyxin B sulfate and trimethoprim ophthalmic solution is local irritation consisting of increased redness, burning, stinging, and/or itching. This may occur on instillation, within 48 hours, or at any time with extended use. There are also multiple reports of hypersensitivity reactions consisting of lid edema, itching, increased redness, tearing, and/or circumocular rash. Photosensitivity has been reported in patients taking oral trimethoprim.

To report SUSPECTED ADVERSE REACTIONS, contact Bausch + Lomb, a division of Valeant Pharmaceuticals North America LLC, at 1-800-321-4576 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

## **DOSAGE AND ADMINISTRATION**

In mild to moderate infections, instill one drop in the affected eye(s) every three hours (maximum of 6 doses per day) for a period of 7 to 10 days.

## **HOW SUPPLIED**

Polymyxin B Sulfate and Trimethoprim Ophthalmic Solution, USP\*, containing 10,000 polymyxin B units and 1 mg trimethoprim per mL, is supplied in a plastic bottle with a controlled drop tip and a natural cap in the following size:

NDC 68071-1651-5 Box of 10mL

**DO NOT USE IF IMPRINTED NECKBAND IS NOT INTACT.**

**Storage:** Store at 15°-25°C (59°-77°F). PROTECT FROM LIGHT.

\*Does not meet USP packaging specification for light resistance.

RETAIN IN CARTON UNTIL TIME OF USE.

Bausch + Lomb, a division of

Valeant Pharmaceuticals North America LLC

Bridgewater, NJ 08807 USA

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Revised: June 2016

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9117902 **(Flat)**

**Principal Display Panel**

# NuCare Pharmaceuticals, Inc.

NDC: 68071-1651-5

## Poly B Sulfate/Trimethoprim

10mL Opth. Soln.

Each mL contains Actives: Polymyxin B Sulfate equal to 10,000 Polymyxin B units, Trimethoprim Sulfate (equivalent to Trimethoprim 1mg); See manufacturer's label for full list of ingredients.

Product #: R0578015  
**Rx Only**

Poly B Sulfate/Trimethoprim

Lot: 00000 NDC: 68071-1651-05  
MFR NDC: 24208-315-10 Exp.: 00-00  
Serial# 0000000002

Poly B Sulfate/Trimethoprim

Lot: 00000 NDC: 68071-1651-05  
MFR NDC: 24208-315-10 Exp.: 00-00  
Serial# 0000000002



GTIN 00368071165159  
Serial# 0000000002  
Exp. Date 00-00  
LOT#: 00000

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Manufactured by: Bausch & Lomb Incorporated  
Tampa, FL 33637  
Packaged by: NuCare Pharmaceuticals, Inc.  
Orange, CA 92867

Patent Instructions:  
Place \_\_\_\_\_ drop(s) into the affected eye(s) every \_\_\_\_\_ hours.

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Rev 01/01/19

WARNING: KEEP OUT OF REACH OF CHILDREN

STORE AT CONTROLLED TEMPERATURE 59-77°F.

## POLYMYXIN B SULFATE AND TRIMETHOPRIM

polymyxin b sulfate and trimethoprim sulfate solution/ drops

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:68071-1651(NDC:24208-315)
<b>Route of Administration</b>	OPHTHALMIC		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>POLYMYXIN B SULFATE</b> (UNII: 19371312D4) (POLYMYXIN B - UNII:J2VZ07J96K)	POLYMYXIN B	10000 [USP'U] in 1 mL
<b>TRIMETHOPRIM SULFATE</b> (UNII: E377MF8EQ8) (TRIMETHOPRIM - UNII:AN164J8Y0X)	TRIMETHOPRIM	1 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>SODIUM CHLORIDE</b> (UNII: 451W47IQ8X)	
<b>SULFURIC ACID</b> (UNII: O40UQP6WCF)	
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	
<b>BENZALKONIUM CHLORIDE</b> (UNII: F5UM2KM3W7)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68071-	10 mL in 1 BOX; Type 0: Not a Combination	08/02/2017	

1651-5	Product	06/05/2017	
<b>Marketing Information</b>			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA064120	02/14/1997	

**Labeler** - NuCare Pharmaceuticals, Inc. (010632300)

### Establishment

Name	Address	ID/FEI	Business Operations
NuCare Pharmaceuticals, Inc.		010632300	relabel(68071-1651)

Revised: 7/2022

NuCare Pharmaceuticals, Inc.