

**TOBRAMYCIN AND DEXAMETHASONE- tobramycin and dexamethasone suspension/ drops  
NuCare Pharmaceuticals, Inc.**

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**Tobramycin and**

**Dexamethasone**

**Ophthalmic**

**Suspension, USP**

**0.3%/0.1%**

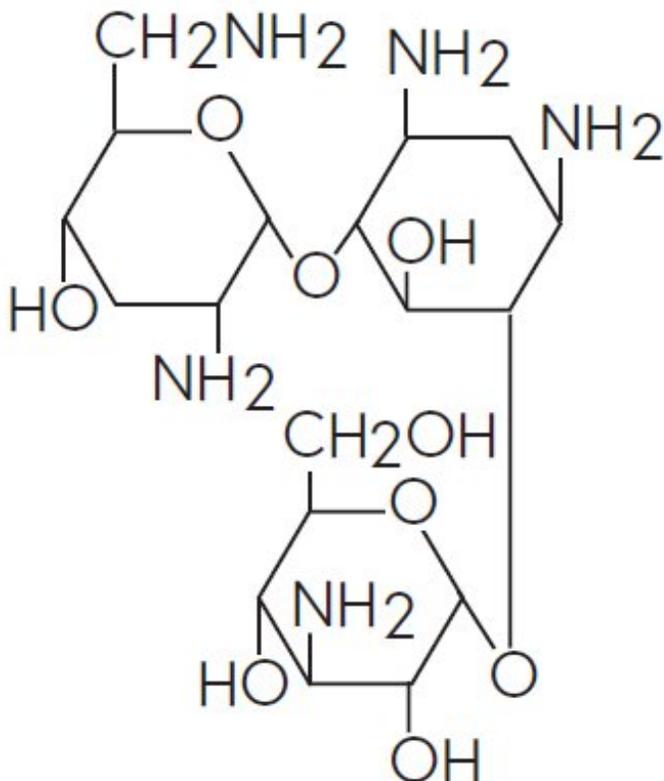
**(Sterile)**

**Rx only**

**FOR OPHTHALMIC USE ONLY**

**DESCRIPTION**

Tobramycin and Dexamethasone Ophthalmic Suspension, USP 0.3%/0.1% is a sterile, multiple dose antibiotic and steroid combination for topical ophthalmic use. Tobramycin is represented by the following structural formula:

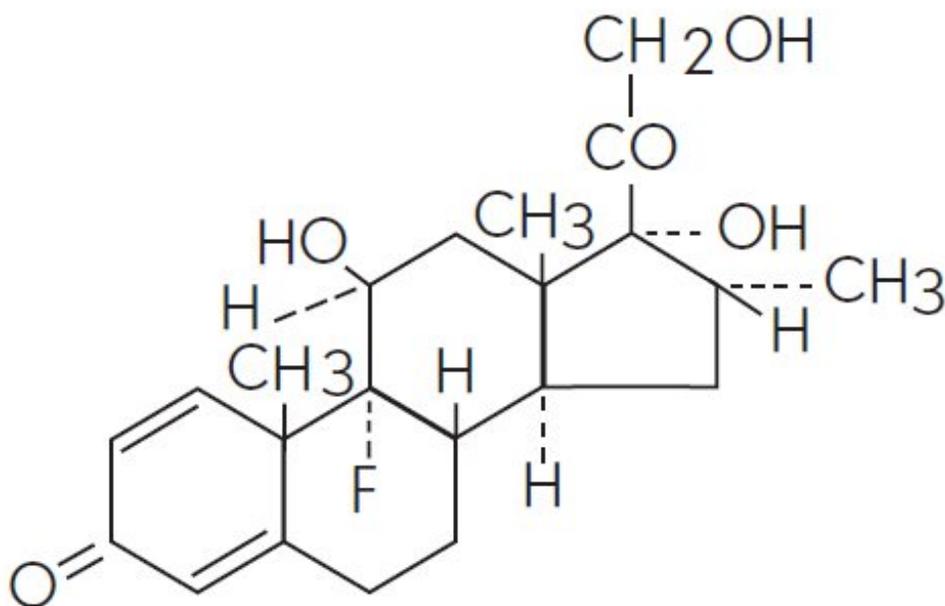


C<sub>18</sub>H<sub>37</sub>N<sub>5</sub>O<sub>9</sub>

Mol. Wt. 467.52

Chemical Name: 0-3-Amino-3-deoxy- $\alpha$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- 0-[(2,6-diamino-2,3,6-tridexoxy- $\alpha$ -D- *ribo*-hexopyranosyl-(1 $\rightarrow$ 6)]-2-deoxy-L-streptamine

Dexamethasone is represented by the following structural formula:



C<sub>22</sub>H<sub>29</sub>FO<sub>5</sub>

Mol. Wt. 392.47

Chemical Name: 9-Fluoro-11 $\beta$ ,17,21-trihydroxy-16 $\alpha$ -methylpregna-1,4-diene-3,20-dione

**Each mL contains: Actives:** Tobramycin 3 mg (0.3%) and Dexamethasone 1 mg (0.1%); **Inactives:** Edetate Disodium, Hydroxyethyl Cellulose, Purified Water, Sodium Chloride, Sodium Sulfate, and Tyloxapol. Sulfuric Acid and/or Sodium Hydroxide may be added to adjust pH (5.0 - 6.0). **Preservative Added:** Benzalkonium Chloride 0.01%.

## CLINICAL PHARMACOLOGY

Corticoids suppress the inflammatory response to a variety of agents and they probably delay or slow healing. Since corticoids may inhibit the body's defense mechanism against infection, a concomitant antimicrobial drug may be used when this inhibition is considered to be clinically significant. Dexamethasone is a potent corticoid.

The antibiotic component in the combination (tobramycin) is included to provide action against susceptible organisms. *In vitro* studies have demonstrated that tobramycin is active against susceptible strains of the following microorganisms:

Staphylococci, including *S. aureus* and *S. epidermidis* (coagulase-positive and coagulase-

negative), including penicillin-resistant strains.

Streptococci, including some of the Group A-beta-hemolytic species, some nonhemolytic species, and some *Streptococcus pneumoniae*.

*Pseudomonas aeruginosa*, *Escherichia coli*, *Klebsiella pneumoniae*, *Enterobacter aerogenes*, *Proteus mirabilis*, *Morganella morganii*, most *Proteus vulgaris* strains, *Haemophilus influenzae* and *H. aegyptius*, *Moraxella lacunata*, *Acinetobacter calcoaceticus* and some *Neisseria* species.

Bacterial susceptibility studies demonstrate that in some cases microorganisms resistant to gentamicin remain susceptible to tobramycin.

No data are available on the extent of systemic absorption from Tobramycin and Dexamethasone Ophthalmic Suspension; however, it is known that some systemic absorption can occur with ocularly applied drugs. If the maximum dose of Tobramycin and Dexamethasone Ophthalmic Suspension is given for the first 48 hours (two drops in each eye every 2 hours) and complete systemic absorption occurs, which is highly unlikely, the daily dose of dexamethasone would be 2.4 mg. The usual physiologic replacement dose is 0.75 mg daily. If Tobramycin and Dexamethasone Ophthalmic Suspension is given after the first 48 hours as two drops in each eye every 4 hours, the administered dose of dexamethasone would be 1.2 mg daily.

## **INDICATIONS AND USAGE**

Tobramycin and Dexamethasone Ophthalmic Suspension is indicated for steroid-responsive inflammatory ocular conditions for which a corticosteroid is indicated and where superficial bacterial ocular infection or a risk of bacterial ocular infection exists.

Ocular steroids are indicated in inflammatory conditions of the palpebral and bulbar conjunctiva, cornea and anterior segment of the globe where the inherent risk of steroid use in certain infective conjunctivitis is accepted to obtain a diminution in edema and inflammation. They are also indicated in chronic anterior uveitis and corneal injury from chemical, radiation or thermal burns, or penetration of foreign bodies.

The use of a combination drug with an anti-infective component is indicated where the risk of superficial ocular infection is high or where there is an expectation that potentially dangerous numbers of bacteria will be present in the eye.

The particular anti-infective drug in this product is active against the following common bacterial eye pathogens:

Staphylococci, including *S. aureus* and *S. epidermidis* (coagulase-positive and coagulase-negative), including penicillin-resistant strains.

Streptococci, including some of the Group A-beta-hemolytic species, some nonhemolytic species, and some *Streptococcus pneumoniae*.

*Pseudomonas aeruginosa*, *Escherichia coli*, *Klebsiella pneumoniae*, *Enterobacter aerogenes*, *Proteus mirabilis*, *Morganella morganii*, most *Proteus vulgaris* strains, *Haemophilus influenzae* and *H. aegyptius*, *Moraxella lacunata*, *Acinetobacter calcoaceticus* and some *Neisseria* species.

## **CONTRAINDICATIONS**

Epithelial herpes simplex keratitis (dendritic keratitis), vaccinia, varicella, and many other viral diseases of the cornea and conjunctiva. Mycobacterial infection of the eye. Fungal diseases of ocular structures. Hypersensitivity to a component of the medication.

## **WARNINGS**

**FOR TOPICAL OPHTHALMIC USE ONLY. NOT FOR INJECTION INTO THE EYE.**

Sensitivity to topically applied aminoglycosides may occur in some patients. If a sensitivity reaction does occur, discontinue use.

Prolonged use of steroids may result in glaucoma, with damage to the optic nerve, defects in visual acuity and fields of vision, and posterior subcapsular cataract formation. Intraocular pressure should be routinely monitored even though it may be difficult in pediatric patients and uncooperative patients. Prolonged use may suppress the host response and thus increase the hazard of secondary ocular infections. In those diseases causing thinning of the cornea or sclera, perforations have been known to occur with the use of topical steroids. In acute purulent conditions of the eye, steroids may mask infection or enhance existing infection.

## **PRECAUTIONS**

### **General**

The possibility of fungal infections of the cornea should be considered after long-term steroid dosing. As with other antibiotic preparations, prolonged use may result in overgrowth of nonsusceptible organisms, including fungi. If superinfection occurs, appropriate therapy should be initiated. When multiple prescriptions are required, or whenever clinical judgement dictates, the patient should be examined with the aid of magnification, such as slit lamp biomicroscopy and, where appropriate, fluorescein staining.

Cross-sensitivity to other aminoglycoside antibiotics may occur; if hypersensitivity develops with this product, discontinue use and institute appropriate therapy.

### **Information for Patients:**

Do not touch dropper tip to any surface, as this may contaminate the contents. Contact lenses should not be worn during the use of this product.

### **Carcinogenesis, Mutagenesis, Impairment of Fertility:**

No studies have been conducted to evaluate the carcinogenic or mutagenic potential. No impairment of fertility was noted in studies of subcutaneous tobramycin in rats at doses of 50 and 100 mg/kg/day.

### **Pregnancy Category C:**

Corticosteroids have been found to be teratogenic in animal studies. Ocular administration of 0.1% dexamethasone resulted in 15.6% and 32.3% incidence of fetal

anomalies in two groups of pregnant rabbits. Fetal growth retardation and increased mortality rates have been observed in rats with chronic dexamethasone therapy. Reproduction studies have been performed in rats and rabbits with tobramycin at doses up to 100 mg/kg/day parenterally and have revealed no evidence of impaired fertility or harm to the fetus. There are no adequate and well controlled studies in pregnant women. Tobramycin and Dexamethasone Ophthalmic Suspension should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

### **Nursing Mothers:**

Systemically administered corticosteroids appear in human milk and could suppress growth, interfere with endogenous corticosteroid production, or cause other untoward effects. It is not known whether topical administration of corticosteroids could result in sufficient systemic absorption to produce detectable quantities in human milk. Because many drugs are excreted in human milk, caution should be exercised when Tobramycin and Dexamethasone Ophthalmic Suspension is administered to a nursing woman.

### **Pediatric Use:**

Safety and effectiveness in pediatric patients below the age of 2 years have not been established.

### **Geriatric Use:**

No overall differences in safety or effectiveness have been observed between elderly and younger patients.

## **ADVERSE REACTIONS**

Adverse reactions have occurred with steroid/anti-infective combination drugs which can be attributed to the steroid component, the anti-infective component, or the combination. Exact incidence figures are not available. The most frequent adverse reactions to topical ocular tobramycin (Tobramycin Ophthalmic Solution) are hypersensitivity and localized ocular toxicity, including lid itching and swelling, and conjunctival erythema. These reactions occur in less than 4% of patients. Similar reactions may occur with the topical use of other aminoglycoside antibiotics. Other adverse reactions have not been reported; however, if topical ocular tobramycin is administered concomitantly with systemic aminoglycoside antibiotics, care should be taken to monitor the total serum concentration. The reactions due to the steroid component are: elevation of intraocular pressure (IOP) with possible development of glaucoma, and infrequent optic nerve damage; posterior subcapsular cataract formation; and delayed wound healing.

**Secondary Infection:** The development of secondary infection has occurred after use of combinations containing steroids and antimicrobials. Fungal infections of the cornea are particularly prone to develop coincidentally with long-term applications of steroids. The possibility of fungal invasion must be considered in any persistent corneal ulceration where steroid treatment has been used. Secondary bacterial ocular infection following suppression of host responses also occurs.

**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).**

## **OVERDOSAGE**

Clinically apparent signs and symptoms of an overdose of Tobramycin and Dexamethasone Ophthalmic Suspension punctate keratitis, erythema, increased lacrimation, edema and lid itching may be similar to adverse reaction effects seen in some patients.

## **DOSAGE AND ADMINISTRATION**

One or two drops instilled into the conjunctival sac(s) every four to six hours. During the initial 24 to 48 hours, the dosage may be increased to one or two drops every two (2) hours. Frequency should be decreased gradually as warranted by improvement in clinical signs. Care should be taken not to discontinue therapy prematurely.

Not more than 20 mL should be prescribed initially and the prescription should not be refilled without further evaluation as outlined in PRECAUTIONS above.

## **HOW SUPPLIED**

Tobramycin and Dexamethasone Ophthalmic Suspension, USP 0.3%/0.1% is supplied in a plastic bottle with a controlled drop tip and pink cap in the following sizes:

NDC 68071-4203-5 Box of 5mL

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

### **Storage:**

Store upright at 20°-25°C (68°-77°F). Shake well before using.

### **Rx only**

Revised: June 2016

Bausch + Lomb, a division of  
Valeant Pharmaceuticals North America LLC  
Bridgewater, NJ 08807 USA  
©Bausch & Lomb Incorporated

9090703 (folded)  
9090603 (flat)

## **Principle Display Panel**

NDC: 68071-4203-5  
**Tobramycin 0.3%/Dex. 0.1%**

**5mL Ophth. Susp.**

See manufacturer's label  
 for full list of ingredients.

Product #: R1343005  
**Rx Only**

Tobramycin 0.3%/Dex. 0.1%  
 Lot: 000000 NDC: 68071-4203-05  
 MFR NDC: 24208-295-05 Exp.: 00-00

Tobramycin 0.3%/Dex. 0.1%  
 Lot: 000000 NDC: 68071-4203-05  
 MFR NDC: 24208-295-05 Exp.: 00-00



GTIN 00368071420357  
 Serial# 00000000002  
 Exp. Date 00-00  
 LOT#: 000000

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

Manufactured by: 3 6807142035 7  
 Valeant Pharmaceuticals North  
 America LLC Bridgewater, NJ 08807  
 Packaged By:  
 NuCare Pharmaceuticals, Inc.  
 Orange, CA 92867



680714203055\*000000\*000000

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

Rev 01/01/19

WARNING: KEEP OUT OF REACH OF CHILDREN

STORE AT CONTROLLED TEMPERATURE 68-77°F.

## TOBRAMYCIN AND DEXAMETHASONE

tobramycin and dexamethasone suspension/ drops

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:68071-4203(NDC:24208-295)
<b>Route of Administration</b>	OPHTHALMIC		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>TOBRAMYCIN</b> (UNII: VZ8RRZ51VK) (TOBRAMYCIN - UNII:VZ8RRZ51VK)	TOBRAMYCIN	3 mg in 1 mL
<b>DEXAMETHASONE</b> (UNII: 7S5I7G3JQL) (DEXAMETHASONE - UNII:7S5I7G3JQL)	DEXAMETHASONE	1 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>EDETATE DISODIUM</b> (UNII: 7FLD91C86K)	
<b>HYDROXYETHYL CELLULOSE (2000 MPA.S AT 1%)</b> (UNII: S38J6RZN16)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>SODIUM CHLORIDE</b> (UNII: 451W47IQ8X)	
<b>SODIUM SULFATE</b> (UNII: 0YPR65R21J)	
<b>TYLOXAPOL</b> (UNII: Y27PUL9H56)	
<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	Marketing End
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#	Item Code	Package Description	Date	Date
1	NDC:68071-4203-5	5 mL in 1 BOX; Type 0: Not a Combination Product	12/28/2017	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA064134	10/27/1999	

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

## Establishment

Name	Address	ID/FEI	Business Operations
NuCare Pharmaceuticals, Inc.		010632300	relabel(68071-4203)

Revised: 6/2024

NuCare Pharmaceuticals, Inc.