TOBRAMYCIN- tobramycin solution A-S Medication Solutions

Tobramycin
Ophthalmic Solution, USP
0.3%
(Sterile)
Rx only

DESCRIPTION

Tobramycin Ophthalmic Solution USP, 0.3% is a sterile topical ophthalmic antibiotic formulation prepared specifically for topical therapy of external ophthalmic infections.

Each mL contains:

Active: tobramycin 3 mg (0.3%). **Inactives:** boric acid, sodium sulfate, sodium chloride, tyloxapol and purified water. Sodium hydroxide and/or sulfuric acid (to adjust pH). Tobramycin ophthalmic solution, 0.3% has a pH range between 7.0 and 8.0.

Preservative Added: benzalkonium chloride 0.1 mg (0.01%).

Tobramycin is a water-soluble aminoglycoside antibiotic active against a wide variety of gram-negative and gram-positive ophthalmic pathogens.

The chemical structure of tobramycin is:

Molecular weight: 467.52

Molecular formula: C₁₀H₁₇N₆O₀

Chemical name:

(2S,3R,4S,5S,6R)-4-amino-2-[(1S,2S,3R,4S,6R)-4,6-diamino-3-[(2R,3R,5S,6R)-3-amino-6-(aminomethyl)-5-hydroxyoxan-2-yl]oxy-2-hydroxycyclohexyl]oxy-6-(hydroxymethyl)oxane-3,5-diol

CLINICAL PHARMACOLOGY

In Vitro Data: In vitro studies have demonstrated tobramycin is active against

susceptible strains of the following microorganisms: *Staphylococci*, including *S. aureus* and *S. epidermidis* (coagulase-positive and coagulase-negative), including penicillinresistant 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 retain susceptibility to tobramycin.

INDICATIONS AND USAGE

Tobramycin ophthalmic solution, 0.3% is a topical antibiotic indicated in the treatment of external infections of the eye and its adnexa caused by susceptible bacteria. Appropriate monitoring of bacterial response to topical antibiotic therapy should accompany the use of tobramycin ophthalmic solution. Clinical studies have shown tobramycin to be safe and effective for use in children.

CONTRAINDICATIONS

Tobramycin ophthalmic solution, 0.3% is contraindicated in patients with known hypersensitivity to any of its components.

WARNINGS

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

Sensitivity to topically applied aminoglycosides may occur in some patients. Severity of hypersensitivity reactions may vary from local effects to generalized reactions such as erythema, itching, urticaria, skin rash, anaphylaxis, anaphylactoid reactions, or bullous reactions. If a sensitivity reaction to tobramycin ophthalmic solution, 0.3% occurs, discontinue use.

PRECAUTIONS

General

As with other antibiotic preparations, prolonged use may result in overgrowth of nonsusceptible organisms, including fungi. If superinfection occurs, appropriate therapy should be initiated. Cross-sensitivity to other aminoglycoside antibiotics may occur; if hypersensitivity develops with this product, discontinue use and institute appropriate therapy. Patients should be advised not to wear contact lenses if they have signs and symptoms of bacterial ocular infection.

Information for Patients

Do not touch dropper tip to any surface, as this may contaminate the solution.

Pregnancy

Reproduction studies in 3 types of animals at doses up to 33 times the normal human systemic dose have revealed no evidence of impaired fertility or harm to the fetus due to tobramycin. There are, however, no adequate and well-controlled studies in pregnant women. Because animal studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers

Because of the potential for adverse reactions in nursing infants from tobramycin ophthalmic solution, a decision should be made whether to discontinue nursing the infant or discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use

Safety and effectiveness in pediatric patients below the age of 2 months has not been established.

Geriatric Use

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

ADVERSE REACTIONS

The most frequent adverse reactions to tobramycin ophthalmic solution, 0.3% are hypersensitivity and localized ocular toxicity, including lid itching and swelling, and conjunctival erythema. These reactions occur in less than three of 100 patients treated with tobramycin ophthalmic solution.

Postmarketing Experience

Additional adverse reactions identified from postmarketing use include anaphylactic reaction, Stevens-Johnson syndrome, and erythema multiforme.

The following additional adverse reactions have been reported with systemic aminoglycosides:

Neurotoxicity, ototoxicity and nephrotoxicity have occurred in patients receiving systemic aminoglycoside therapy. Aminoglycosides may aggravate muscle weakness in patients with known or suspected neuromuscular disorders, such as myasthenia gravis or Parkinson's disease, because of their potential effect on neuromuscular function.

To report SUSPECTED ADVERSE REACTIONS, contact Bausch & Lomb Incorporated at 1-800-321-4576 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DOSAGE AND ADMINISTRATION

In mild to moderate disease, instill 1 or 2 drops into the affected eye(s) every 4 hours. In severe infections, instill 2 drops into the eye(s) hourly until improvement, following which treatment should be reduced prior to discontinuation.

DO NOT USE IF IMPRINTED NECKBAND IS NOT INTACT.

FOR TOPICAL OPHTHALMIC USE ONLY

HOW SUPPLIED

Product: 50090-2127

NDC: 50090-2127-0 5 mL in a BOTTLE, DROPPER / 1 in a CARTON

Tobramycin



TOBRAMYCIN

tobramycin solution

Product	Information
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Product Type

HUMAN PRESCRIPTION DRUG

HUMAN PRESCRIPTION (Source)

NDC:50090-2127(NDC:24208-290)

Route of Administration OPHTHALMIC

Active Ingredient/Active Moiety

Ingredient Name		Basis of Strength	Strength
	TOBRAMYCIN (UNII: VZ8RRZ51VK) (TOBRAMYCIN - UNII: VZ8RRZ51VK)	TOBRAMYCIN	3.0 mg in 1 mL

Inactive Ingredients			
Ingredient Name	Strength		
BORIC ACID (UNII: R57ZHV85D4)			
WATER (UNII: 059QF0KO0R)			
SODIUM CHLORIDE (UNII: 451W47IQ8X)			
SODIUM HYDROXIDE (UNII: 55X04QC32I)			
SODIUM SULFATE (UNII: 0YPR65R21J)			
SULFURIC ACID (UNII: O40UQP6WCF)			
TYLOXAPOL (UNII: Y27PUL9H56)			

Packaging			
# Item Code	Package Description	Marketing Start Date	Marketing End Date
1 NDC:50090- 2127-0	1 in 1 CARTON	10/15/2015	
1	5 mL in 1 BOTTLE, DROPPER; Type 0: Not a Combination Product		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA064052	11/29/1993	

Labeler - A-S Medication Solutions (830016429)

Establishment				
Na me	Address	ID/FEI	Business Operations	
A-S Medication Solutions		830016429	RELABEL(50090-2127)	

Revised: 5/2023 A-S Medication Solutions