**TOBRAMYCIN- tobramycin solution**
**Bausch & Lomb Incorporated**

---

**Tobramycin**
**Ophthalmic Solution USP,**
**0.3% (Sterile)**

**Rx only**

## DESCRIPTION:

Tobramycin ophthalmic solution is a sterile topical ophthalmic antibiotic formulation prepared specifically for topical therapy of external 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 may be added to adjust pH (7.0 - 8.0).

PRESERVATIVE ADDED: Benzalkonium Chloride 0.1 mg (0.01%).

The structural formula of tobramycin is

Molecular formula: $C_{18}H_{37}N_5O_9$
Molecular weight: 467.52

Chemical name:

O-[3-amino-3-deoxy—α-D-gluco-pyranosyl-(1 → 4)]-O-[2,6-diamino-2,3,6-trideoxy-α-D-ribohexo-pyranosyl- (1 → 6)]-2-deoxystreptamine.

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

## 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 penicillin-resistant strains.

Streptococci, including some of the Group A-betahemolytic 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,* and *Acinetobacter calcoaceticus* and some *Neisseria* species. Bacterial susceptibility studies demonstrate that in some cases, microorganisms resistant to gentamicin retain susceptibility to tobramycin. A significant bacterial population resistant to tobramycin has not yet emerged; however, bacterial resistance may develop upon prolonged use.

## INDICATIONS AND USAGE:

Tobramycin Ophthalmic Solution 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 is contraindicated in patients with known hypersensitivity to any of its components.

## WARNINGS:

NOT FOR INJECTION INTO THE EYE. Sensitivity to topically applied aminoglycosides may occur in some patients. If a sensitivity reaction to Tobramycin Ophthalmic Solution 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.

### Information for patients:

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

### Pregnancy Category B.

Reproduction studies in three types of animals at doses up to thirty-three 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.

## ADVERSE REACTIONS:

The most frequent adverse reactions to tobramycin ophthalmic solution is localized ocular toxicity and hypersensitivity, including lid itching and swelling, and conjunctival erythema. These reactions occur in less than three of 100 patients treated with tobramycin. Similar reactions may occur with the topical use of other aminoglycoside antibiotics. Other adverse reactions have not been reported from tobramycin therapy; however, if topical ocular tobramycin is administered concomitantly with systemic aminoglycoside antibiotics, care should be taken to monitor the total serum concentration.

## OVERDOSAGE:

Clinically apparent signs and symptoms of an overdose of tobramycin ophthalmic solution (punctate keratitis, erythema, increased lacrimation, edema and lid itching) may be similar to adverse reaction effects seen in some patients.

## DOSAGE AND ADMINISTRATION:

In mild to moderate disease, instill one or two drops into the affected eye(s) every four hours. In severe infections, instill two 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 OPHTHALMIC USE ONLY**

## HOW SUPPLIED:

Tobramycin Ophthalmic Solution USP, 0.3% is supplied in a plastic bottle with a controlled drop tip in the following size:

5 mL bottle - Prod. No. 24207

**Storage:**

Store at 2°-25°C (36°-77°F). Avoid excessive heat.

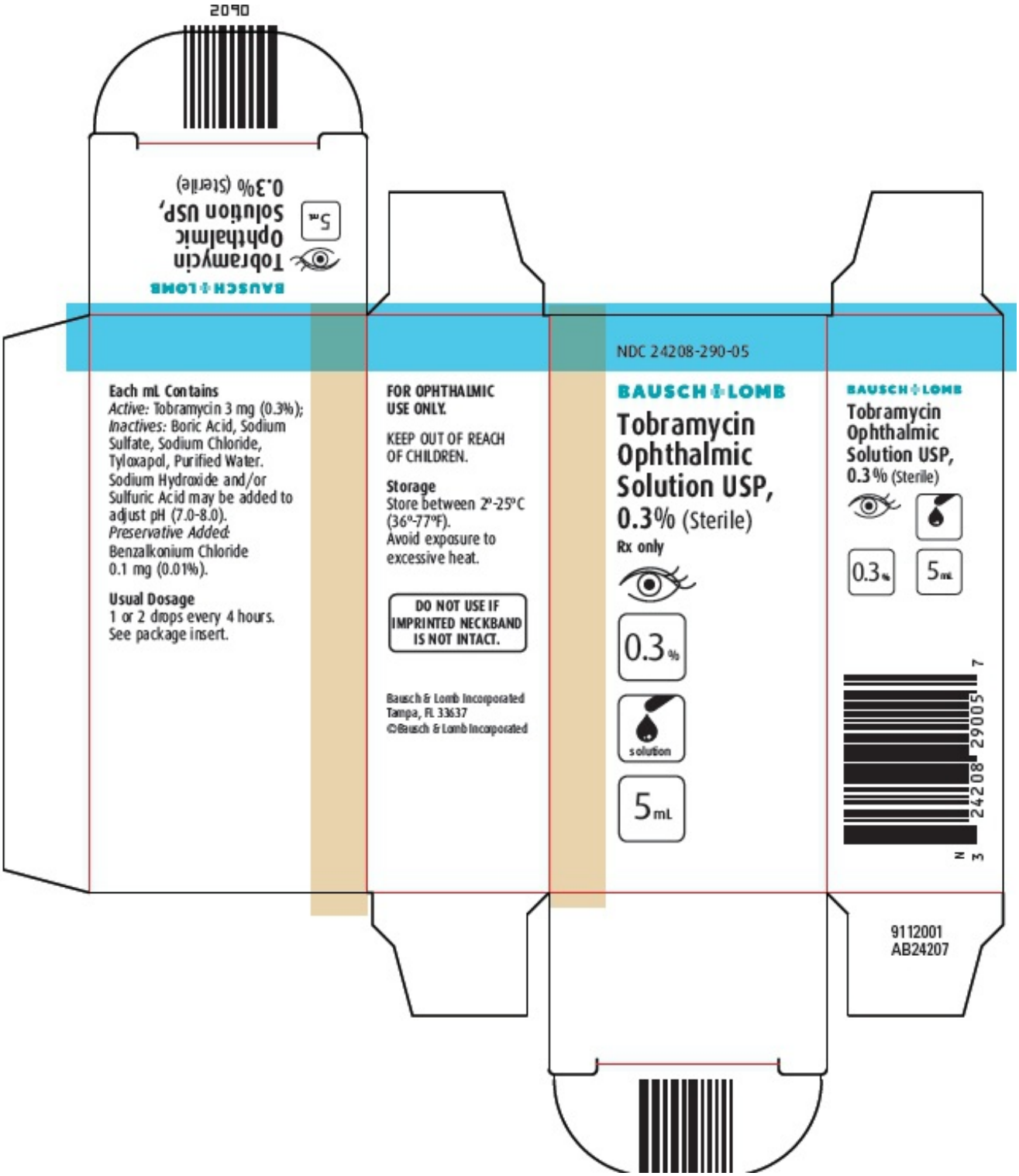
KEEP OUT OF REACH OF CHILDREN.

Revised August 2007

**Bausch & Lomb Incorporated**
Tampa, FL 33637
©Bausch & Lomb Incorporated

9116801 **(Folded)**
9116901 **(Flat)**

**Principal Display Panel**




NDC 24208-290-05

Bausch & Lomb

Tobramycin Ophthalmic Solution USP, 0.3% (Sterile)

Rx only

[icon- eye] [icon- 0.3%] [icon- solution] [icon- 5 mL]

| **TOBRAMYCIN**<br>tobramycin solution |
|---|

## Product Information

| | | | |
|---|---|---|---|
| **Product Type** | HUMAN PRESCRIPTION DRUG LABEL | **Item Code (Source)** | NDC:24208-290 |
| **Route of Administration** | OPHTHALMIC | **DEA Schedule** | |

## Active Ingredient/Active Moiety

| Ingredient Name | Basis of Strength | Strength |
|---|---|---|
| **TOBRAMYCIN** (TOBRAMYCIN) | TOBRAMYCIN | 3 mg in 1 mL |

## Inactive Ingredients

| Ingredient Name | Strength |
|---|---|
| **BENZALKONIUM CHLORIDE** | 0.1 mg in 1 mL |
| **BORIC ACID** | |
| **WATER** | |
| **SODIUM CHLORIDE** | |
| **SODIUM HYDROXIDE** | |
| **SODIUM SULFATE** | |
| **SULFURIC ACID** | |
| **TYLOXAPOL** | |

## Packaging

| # | Item Code | Package Description | Marketing Start Date | Marketing End Date |
|---|---|---|---|---|
| **1** | NDC:24208-290-05 | 1 in 1 CARTON | | |
| **1** | | 5 mL in 1 BOTTLE, DROPPER | | |

## Marketing Information

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

## Labeler - Bausch & Lomb Incorporated (196603781)

## Establishment

| Name | Address | ID/FEI | Business Operations |
|---|---|---|---|
| Bausch & Lomb Incorporated | | 807927397 | MANUFACTURE(24208-290) |

Revised: 1/2013 Bausch & Lomb Incorporated