

# Tobraxyle Eye Drop

## Tobramycin (0.3% w/v) Eye Drop

**Category:** Antibiotic (Aminoglycoside Class)

**Dosage Form:** Ophthalmic Solution (Eye Drop)

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### Description:

Tobramycin (0.3% w/v) is a broad-spectrum aminoglycoside antibiotic used in the treatment of ocular infections, including bacterial conjunctivitis and other eye infections caused by susceptible organisms. It works by inhibiting bacterial protein synthesis, ultimately leading to the death of the bacteria. This eye drop formulation is designed for topical application in the eyes to target and treat infections directly.

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### Composition:

- **Active Ingredient:**
    - Tobramycin – 0.3% w/v (3mg/ml)
  - **Excipients:**
    - Preservatives and stabilizers as per formulation (e.g., Benzalkonium chloride as preservative)
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### Indications:

- **Bacterial Conjunctivitis:** Treatment of eye infections caused by susceptible strains of bacteria.
- **Blepharitis:** Infection of the eyelid margin.
- **Corneal Ulcers:** Infections of the cornea.

- **Other Ocular Infections:** As directed by a healthcare provider for other bacterial eye infections.
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### Dosage and Administration:

- **For Adults and Children (Above 1 year):** Instill 1 to 2 drops in the affected eye(s) every 4 hours (up to 6 times a day) during the first 2 days, and then reduce the frequency as directed by the physician, typically to 1 drop every 6-8 hours for the next 5 days.
  - **Instructions for Use:**
    1. Wash your hands thoroughly before use.
    2. Tilt your head back and pull down the lower eyelid to form a pocket.
    3. Squeeze the prescribed number of drops into the pocket of your eye.
    4. Close your eye gently and press the corner of the eye near the nose to avoid excessive drainage.
    5. Avoid touching the tip of the dropper to any surface (including your eye or hands) to prevent contamination.
    6. Close the cap tightly after use.
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### Mechanism of Action:

Tobramycin is an aminoglycoside antibiotic that works by binding to the 30S ribosomal subunit of bacteria. This binding interferes with the bacterial protein synthesis, causing bacterial cell death. It is effective against a wide range of Gram-positive and Gram-negative bacteria, particularly those commonly involved in ocular infections.

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**Contraindications:**

- **Hypersensitivity to Tobramycin or any component of the formulation.**
  - **History of hypersensitivity reactions to aminoglycosides (e.g., gentamicin, amikacin).**
  - **Not for systemic use; this formulation is for topical ophthalmic use only.**
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**Warnings and Precautions:**

1. **Superinfection: Prolonged use may result in the overgrowth of non-susceptible organisms, including fungi. If superinfection occurs, discontinue use and initiate appropriate therapy.**
  2. **Not for Use in Contact Lenses: Do not use while wearing contact lenses. Contact lenses should be removed prior to application and not worn during the course of treatment, as the preservative benzalkonium chloride may be absorbed by contact lenses.**
  3. **Pregnancy and Lactation: Use during pregnancy and lactation should be limited to cases where the benefit outweighs the potential risks. Tobramycin is classified as Category D for pregnancy (may cause harm), so it should be used with caution under medical supervision.**
  4. **Avoid Contact with Other Medications: Do not instill other eye drops into the same eye immediately before or after using Tobramycin to avoid interaction. Wait at least 5 minutes between medications.**
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**Adverse Effects:****Common Side Effects:**

- **Burning, stinging, or irritation in the eye.**
- **Temporary blurred vision after instillation.**
- **Redness or discomfort in the eye.**

**Serious Side Effects:**

- **Allergic reaction (e.g., itching, swelling of the eyelids, rash).**
- **Eye pain or increased redness.**
- **Vision changes or persistent blurred vision.**

**If any serious reactions occur, discontinue use and seek medical advice immediately.**

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**Drug Interactions:**

- **Other Topical Ophthalmic Medications: Avoid using other eye drops within 5 minutes before or after using Tobramycin to ensure its efficacy.**
  - **Nephrotoxic Drugs: Caution when using in combination with systemic nephrotoxic medications, as aminoglycosides may increase the risk of kidney damage when used in conjunction with such agents.**
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**Storage Instructions:**

- **Store the eye drops at room temperature (between 15°C to 25°C).**
  - **Do not freeze the medication.**
  - **Keep the bottle tightly closed when not in use.**
  - **Keep out of reach of children.**
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**Key Points:**

- **Tobramycin (0.3%) eye drop is a topical antibiotic used to treat bacterial eye infections, including conjunctivitis, blepharitis, and corneal ulcers.**
- **It should be used as directed by your doctor, with doses typically ranging from 1 to 2 drops every 4-6 hours for up to 7 days.**
- **Not for use in contact lens wearers and should not be ingested or used systemically.**
- **Discontinue use if any serious allergic reactions or persistent irritation occur.**

**Always consult a healthcare provider for personalized advice and to confirm the correct dosage and duration of treatment.**

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