

Moxolunic B Ear Drop

**Moxifloxacin (5% w/v) + Betamethasone (0.1% w/v)
Ear Drops**

Description

**Moxifloxacin (5% w/v) + Betamethasone (0.1% w/v)
Ear Drops** is a combination ear drop formulation used for the treatment of ear infections that are associated with inflammation. Moxifloxacin is a broad-spectrum antibiotic that belongs to the fluoroquinolone class, while Betamethasone is a potent corticosteroid that helps to reduce inflammation. The combination is specifically designed to treat both the bacterial infection and the inflammation caused by the infection, offering symptomatic relief.

Composition

Each 1 ml of the ear drop solution contains:

- **Moxifloxacin: 5% w/v (50 mg per 1 ml)**
 - **Betamethasone: 0.1% w/v (1 mg per 1 ml)**
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Indications

This ear drop combination is indicated for the local treatment of ear infections, including:

- **Acute otitis media (middle ear infection), particularly when the infection is complicated by inflammation.**
- **Otitis externa (outer ear canal infection), including cases where inflammation and bacterial infection coexist.**
- **Chronic otitis media with inflammatory symptoms.**
- **Post-surgical ear infections with inflammation.**

It provides a dual-action treatment by addressing the infection (via Moxifloxacin) and reducing the associated inflammation (via Betamethasone).

Mechanism of Action

- **Moxifloxacin:** Moxifloxacin is a fluoroquinolone antibiotic that works by inhibiting the DNA gyrase and topoisomerase IV, enzymes necessary for bacterial DNA replication. This action prevents bacterial cell division and leads to bacterial cell death, thus treating the infection.
- **Betamethasone:** Betamethasone is a corticosteroid that acts by suppressing the immune response and reducing inflammation. It inhibits the production of pro-inflammatory cytokines and prostaglandins, reducing swelling, redness, and pain in the affected area.

Together, this combination works to clear the infection and relieve inflammation in the ear canal.

Dosage and Administration

- **Adults and Children (12 years and older):**
 - Instill 4 to 5 drops into the affected ear(s) twice a day.
 - Continue treatment for 7 to 10 days or as prescribed by the doctor.
- **Children (under 12 years):**
 - Consult with a healthcare provider for the appropriate dose, as pediatric dosing may differ based on the severity of the infection and individual health conditions.
- **Instructions for Use:**
 1. Shake the bottle gently before use.
 2. Tilt the head to one side so that the affected ear is facing upward.
 3. Instill the prescribed number of drops into the ear canal.
 4. After administration, keep the head tilted for a few minutes to allow the medication to reach the inner ear.
 5. If both ears are affected, repeat the process for the other ear.

Ensure the tip of the dropper does not come in contact with the ear to avoid contamination.

Contraindications

- **Hypersensitivity to Moxifloxacin, Betamethasone, or any other components of the formulation.**
 - **Viral ear infections (such as herpes simplex or varicella zoster) or fungal ear infections.**
 - **Perforated eardrum: Use with caution or avoid in patients with a perforated tympanic membrane, as the drug can enter the middle ear and affect inner ear structures.**
 - **Systemic fungal infections or other systemic infections.**
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Warnings and Precautions

- **Increased risk of infections: Prolonged use of topical corticosteroids, like Betamethasone, may increase the risk of secondary infections, including fungal infections. Monitoring for signs of superinfection is advised.**
 - **Ototoxicity: Moxifloxacin and other antibiotics can sometimes lead to ototoxicity (damage to the ear), particularly when used in large quantities or over prolonged periods. It is important to follow the prescribed duration of therapy.**
 - **Caution in pediatric patients: Safety and efficacy in children younger than 12 years have not been fully established, so this combination should only be used under medical supervision in this age group.**
 - **Glaucoma and cataracts: Use of corticosteroids like Betamethasone may lead to increased intraocular pressure and potentially contribute to the development of glaucoma or cataracts when absorbed systemically, although this is rare with topical use.**
 - **Pre-existing ear conditions: Patients with chronic ear conditions or those with a history of eardrum perforation should be evaluated carefully before use.**
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Side Effects

Common side effects may include:

- **Ear irritation, including burning or stinging sensation in the ear.**
- **Itching or discomfort in the ear.**
- **Taste disturbance (due to the drug dripping into the throat).**
- **Dryness or feeling of fullness in the ear.**

Serious side effects (rare) may include:

- **Hearing loss or changes in hearing, which should be reported immediately.**
 - **Allergic reactions such as rash, swelling, or difficulty breathing.**
 - **Signs of systemic corticosteroid effects such as weight gain, mood changes, and fluid retention (although these are uncommon with localized use).**
 - **Worsening of infection or new infections, especially fungal infections.**
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Drug Interactions

There are minimal systemic interactions due to the localized nature of the medication, but caution is advised when using multiple topical treatments in the same area.

- **Other topical or systemic antibiotics: Using other ear medications simultaneously should be done with medical supervision to avoid interactions or overuse of antibiotics.**
 - **Immunosuppressive drugs: Prolonged use of corticosteroids like Betamethasone may increase susceptibility to infections, so co-administration with immunosuppressants should be carefully monitored.**
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Storage Instructions

- **Store the ear drops in a cool, dry place at room temperature (15°C to 30°C).**
- **Protect the bottle from direct sunlight and heat.**

- **Keep the cap tightly closed and ensure it is out of reach of children.**
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Presentation

- **Form: Ear Drop**
 - **Strength: Moxifloxacin 5% w/v, Betamethasone 0.1% w/v**
 - **Pack Size: Available in 5 ml, 10 ml, or 15 ml bottles.**
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Conclusion

Moxifloxacin (5% w/v) + Betamethasone (0.1% w/v) Ear Drops provides an effective treatment for ear infections that involve both bacterial infection and inflammation. The combination of antibiotic action (Moxifloxacin) and anti-inflammatory effects (Betamethasone) helps to reduce the discomfort and promote healing in the ear. It is important to follow the recommended dosage and to use this medication only under the supervision of a healthcare provider, particularly for patients with a history of ear conditions.

Manufactured in India for:



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(An ISO 9001: 2015 Certified Co.)

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