

Brand Name: ASTROXIME 250

Composition: Cefuroxime Axetil Tablet IP 250mg.

Dosage Form: Tablet

Category: Prescription Antibiotic / Cephalosporin Antibacterial

Packaging Type: ALU-ALU

Packaging: 10 × 10

Brief Product Introduction:

ASTROXIME 250 is a second-generation cephalosporin antibiotic containing **Cefuroxime Axetil**, used to treat a wide range of bacterial infections. It is manufactured by **AstraEureka Pharmaceutical**, a reliable **manufacturer of cefuroxime axetil composition**. Designed for oral administration, ASTROXIME 250 is effective against both Gram-positive and Gram-negative bacteria. It is commonly prescribed in respiratory tract infections, urinary tract infections, and skin infections.

Key Ingredients:

- **Cefuroxime Axetil (250 mg)** – A prodrug that is hydrolyzed in the body to active **Cefuroxime**, a bactericidal β -lactam antibiotic
- **Excipients** – Pharmaceutical aids for stability and tablet formulation

Key Benefits:

1. Broad-spectrum antibacterial action
2. Effective against beta-lactamase producing organisms
3. Reliable oral absorption when taken after food
4. Suitable alternative in penicillin-allergic patients (with caution)
5. Well-tolerated with a predictable safety profile

Indications:

1. Upper respiratory tract infections (pharyngitis, tonsillitis, sinusitis)
2. Lower respiratory tract infections (bronchitis, pneumonia)
3. Urinary tract infections (cystitis, pyelonephritis)
4. Skin and soft tissue infections (impetigo, cellulitis)
5. Uncomplicated gonorrhea
6. Lyme disease (early stages)
7. Otitis media

Directions for Use:

1. Should be taken **after meals** to enhance absorption
2. Swallow the tablet whole with a glass of water
3. Do not crush or chew the tablet

4. Always follow physician's prescribed dose and duration

Doses and Administration:

1. **Adults and adolescents (≥12 years):** 250 mg twice daily for most infections
2. Dosage may vary depending on the type and severity of infection
3. **Children under 12 years:** Not recommended in tablet form; pediatric suspension is preferred
4. Duration: Usually 5–10 days based on clinical response
5. Complete the full course even if symptoms improve early

Safety Information:

1. For **oral use only**
2. Should be taken **after food** to reduce gastrointestinal upset
3. Caution in patients with **renal impairment** – dose adjustment may be necessary
4. Report persistent diarrhea, rash, or allergic reactions immediately
5. Not suitable for viral infections like colds or flu

Mechanism of Action:

Cefuroxime Axetil is a prodrug that is hydrolyzed in the intestinal mucosa to active **Cefuroxime**, which inhibits **bacterial cell wall synthesis** by binding to **penicillin-binding proteins (PBPs)**. This disrupts the final transpeptidation step in peptidoglycan synthesis, leading to **bacterial lysis and death**.

It is **bactericidal**, active against a range of **Gram-positive and Gram-negative organisms**, and is **resistant to many β -lactamases**. Cefuroxime has good penetration into tissues and body fluids, including the respiratory tract and urinary tract.

Contraindications:

1. Hypersensitivity to **cephalosporins** or any component of the formulation
2. History of severe allergic reactions to **penicillins** (due to cross-reactivity)
3. Use with caution in patients with **severe renal impairment**
4. Not recommended in neonates or infants without physician supervision

Side Effects:

1. Gastrointestinal: Nausea, vomiting, diarrhea, abdominal pain
2. Hypersensitivity: Rash, itching, urticaria, anaphylaxis (rare)
3. Hematologic: Transient eosinophilia or leukopenia
4. Liver: Elevated liver enzymes (rare and reversible)
5. Superinfection (e.g., candidiasis) with prolonged use

Important Notice:

- Use only when prescribed by a registered medical practitioner
- Not to be used for self-medication or viral infections
- Complete the full course even if symptoms resolve early
- May interact with antacids, oral contraceptives, or other antibiotics
- Inform the physician about any history of allergies or current medications

Storage Condition:

1. Store in a **cool, dry place below 25°C.**
2. Protect from **light and moisture.**
3. Keep the strip in the original packaging until use.
4. Keep out of reach of **children.**

Packing Information:

- Packaged in **ALU-ALU Pack** to ensure stability and protection.
- Pack Size: **10 × 10 tablets.**

