

**Brand Name: ACOCEF-375 INJECTION**

**Composition:** Ceftriaxone & Sulbactam IP Injection

**Dosage Form:** INJECTION

**Category:** Third Generation Cephalosporin + Beta-Lactamase Inhibitor

**Packaging Type:** VIAL

**Packaging:** 375 MG

**Brief Product Information:**

ACOCEF-375 is a combination antibiotic injection manufactured by **AstraEureka Pharmaceutical**, a trusted **manufacturer of composition** combining Ceftriaxone (250mg) and Sulbactam (125mg). Ceftriaxone is a broad-spectrum third-generation cephalosporin antibiotic, and Sulbactam is a beta-lactamase inhibitor that prevents enzymatic degradation of Ceftriaxone, enhancing its antibacterial efficacy. This synergistic combination is effective against resistant bacterial strains and is used in a variety of serious infections. ACOCEF-375 is indicated for respiratory tract infections, urinary tract infections, skin infections, meningitis, septicemia, and post-surgical prophylaxis. It is administered via IV or IM route under medical supervision. Proper renal and hepatic monitoring is advised. ACOCEF-375 is supplied in a sterile 375 mg vial with a separate sterile water ampoule for reconstitution.

**Composition:**

**Each vial contains:**

- Ceftriaxone Sodium IP  
equivalent to Anhydrous Ceftriaxone.....250 mg
- Sulbactam Sodium IP  
equivalent to Anhydrous Sulbactam.....125mg

**Key Ingredients:**

1. **Ceftriaxone Sodium IP (1000 mg):** A third-generation cephalosporin antibiotic effective against a wide range of gram-positive and gram-negative organisms.
2. **Sulbactam Sodium IP (500 mg):** A beta-lactamase inhibitor that enhances Ceftriaxone's activity by inhibiting beta-lactamase enzymes produced by resistant bacteria.

**Key Benefits:**

1. Broad-spectrum antibacterial coverage.
2. Enhanced efficacy against beta-lactamase producing strains.
3. Convenient once-daily administration.
4. Effective in severe systemic and localized infections.
5. Suitable for both hospital and emergency care settings.

### **Indications:**

1. Lower respiratory tract infections.
2. Urinary tract infections (complicated & uncomplicated).
3. Skin and soft tissue infections.
4. Intra-abdominal infections.
5. Bacterial meningitis.
6. Septicemia.
7. Bone and joint infections.
8. Pelvic and gynecological infections.
9. Surgical site prophylaxis.

### **Directions for Use:**

1. Reconstitute vial with sterile water for injection.
2. Shake well until fully dissolved.
3. Administer via intravenous (slow push or infusion) or deep intramuscular injection.
4. Use immediately after reconstitution or as per label instructions.

### **Dosage and Administration:**

1. **Adults:** 1.5 g to 3 g/day in divided doses based on infection severity.
2. **Children:** Dose adjusted by weight (usual: 50–75 mg/kg/day).
3. **IV Infusion:** Infuse over 30 minutes.
4. **IM Injection:** Administer in deep muscle mass.
5. Duration of therapy depends on clinical response.

### **Mechanism of Action:**

- **Ceftriaxone** inhibits bacterial cell wall synthesis by binding to penicillin-binding proteins (PBPs), leading to bacterial lysis and death.
- **Sulbactam** acts as a suicide inhibitor of beta-lactamases, protecting Ceftriaxone from degradation by resistant organisms.
- The combination provides synergistic and extended-spectrum antibacterial activity, especially effective in mixed infections or resistant strains.

### **Safety Information:**

1. Conduct culture and sensitivity testing prior to therapy.
2. Monitor liver and kidney functions in long-term use.
3. Caution in patients with allergy to cephalosporins or penicillins.
4. Avoid co-administration with calcium-containing IV fluids in neonates.
5. Not recommended during pregnancy or lactation unless absolutely necessary.

**Contraindications:**

1. Known hypersensitivity to cephalosporins, penicillins, or sulbactam.
2. Neonates with hyperbilirubinemia.
3. Premature infants or neonates receiving calcium-containing IV solutions.

**Side Effects:**

1. Local: Pain, swelling, or phlebitis at injection site.
2. Systemic: Diarrhea, rash, nausea, vomiting.
3. Rare: Hypersensitivity reactions, pseudomembranous colitis, thrombocytopenia, hepatotoxicity.

**Important Notice:**

- For use only under supervision of a registered medical practitioner.
- Not for self-medication.
- Use only after proper medical diagnosis and prescription.

**Storage Condition:**

1. Store below 25°C in a dry place.
2. Protect from direct sunlight and moisture.
3. Keep out of reach of children.
4. Reconstituted solution should be used immediately or as per label instructions.

**Packing Information:**

- One glass vial containing Ceftriaxone 250mg + Sulbactam 125mg.
- Pack includes sterile water for injection for reconstitution.
- Supplied in 375 mg sterile pack.