

Brand Name: DOXOMIN DS

Composition: Cefpodoxime Oral suspension IP

Dosage Form: DRY SYRUP

Category: Third Generation Cephalosporin Antibiotic

Packaging Type: HDPE WITH W.F.I.

Packaging: 15 GM PER 30 ML

Brief Product Information:

DOXOMIN DS is a dry syrup formulation manufactured by **AstraEureka Pharmaceutical**, a trusted manufacturer of composition containing **Cefpodoxime Proxetil**, a third-generation cephalosporin. It is indicated for the treatment of various bacterial infections in pediatric patients. Designed with a flavoured base for improved palatability, it ensures compliance and effective therapeutic outcomes.

Composition:

Each 5 ml of reconstituted suspension contains:

- Cefpodoxime Proxetil IP
equivalent to Cefpodoxime.....50 mg
- Excipients.....q.s.
- Flavoured base.....q.s.

Key Ingredients:

- **Cefpodoxime Proxetil IP:** A prodrug that gets converted into active **Cefpodoxime**, which is effective against a broad range of bacterial pathogens.
- **Flavoured base:** Enhances taste for pediatric use.
- **Pharmaceutical excipients:** For stability and uniform suspension.

Key Benefits:

1. Broad-spectrum antibacterial activity against gram-positive and gram-negative organisms.
2. Pediatric-friendly syrup with pleasant taste for easy administration.
3. Convenient twice-daily dosing.
4. High safety profile when used under medical supervision.
5. Effective against respiratory, urinary, and skin infections.

Indications:

1. Upper respiratory tract infections such as sinusitis, pharyngitis, and tonsillitis.

2. Lower respiratory tract infections including bronchitis and community-acquired pneumonia.
3. Otitis media (ear infection).
4. Skin and soft tissue infections.
5. Urinary tract infections (UTIs).
6. Uncomplicated gonorrhea (off-label in some regions, under physician guidance).

Directions for Use:

1. Shake the bottle well before reconstitution.
2. Add freshly boiled and cooled water up to the marked line on the label and shake well to make a uniform suspension.
3. Shake well before each use.
4. Administer using a calibrated measuring spoon or cup.
5. Follow the physician's prescription precisely.

Doses and Administration:

1. Recommended dose in children: **10 mg/kg/day** divided into two doses.
2. Typically, **5 ml twice daily** or as directed by the physician depending on age and weight.
3. Duration: 5 to 10 days based on infection severity and response.
4. Must complete the full course even if symptoms resolve early.

Safety Information:

1. Use under strict medical supervision.
2. Not recommended in patients with known hypersensitivity to cephalosporins.
3. Caution advised in patients with renal impairment; dosage adjustment may be necessary.
4. Monitor for signs of allergic reactions such as rash, itching, or swelling.
5. Prolonged use may result in superinfections.
6. Ensure proper hygiene and handling of the reconstituted syrup.

Mechanism of Action:

- **Cefpodoxime** is a beta-lactam antibiotic from the cephalosporin class.
- It acts by **inhibiting bacterial cell wall synthesis**, binding to penicillin-binding proteins (PBPs).
- Disrupts the final transpeptidation step in peptidoglycan synthesis, leading to cell lysis and death of susceptible bacteria.

- Exhibits time-dependent bactericidal activity and is stable in the presence of certain beta-lactamases.

Contraindications:

- Hypersensitivity to Cefpodoxime or other beta-lactam antibiotics (penicillins and cephalosporins).
- History of severe allergic reaction (anaphylaxis) to penicillin.
- Not advised for neonates without pediatric consultation.

Side Effects:

- Common: Nausea, vomiting, abdominal pain, diarrhea.
- Rare: Rash, urticaria, itching.
- Severe (rare): Pseudomembranous colitis, hypersensitivity reactions, anaphylaxis.
- Report any side effect to the prescribing physician immediately.

Important Notice:

- DOXOMIN DS is a **prescription-only** medication.
- Not to be used for viral infections such as flu or common cold.
- Misuse or overuse may lead to antimicrobial resistance.
- Do not discontinue therapy without physician approval.

Storage Condition:

1. Store the dry powder at room temperature, away from moisture and direct sunlight.
2. After reconstitution, keep the syrup **refrigerated (2°C to 8°C)**.
3. Use the reconstituted suspension **within 7 days**.
4. Keep out of reach of children.

Packing Information:

- Primary container: HDPE Bottle
- Content: 15 gm powder for reconstitution to make 30 ml suspension