

Brand Name: LIOXIN 500

Composition: levofloxacin tablet ip 500 mg

Dosage Form: Tablets

Category: Broad-Spectrum Fluoroquinolone Antibiotic

Packaging Type: ALU-ALU

Packaging: 10 x 10 tablets

Brief Product Introduction:

LIOXIN 500 is a high-potency fluoroquinolone antibiotic manufactured by **AstraEureka Pharmaceutical**, a reliable **manufacturer of Levofloxacin composition tablets**. Each tablet contains **Levofloxacin 500 mg**, known for its strong bactericidal activity against a wide range of Gram-positive and Gram-negative pathogens. It is indicated for the treatment of respiratory tract infections, urinary tract infections, skin and soft tissue infections, sinusitis, and certain gastrointestinal infections. LIOXIN 500 offers excellent tissue penetration, rapid onset of action, and a once-daily dosing schedule, making it convenient and effective for outpatient and hospital settings. As a third-generation fluoroquinolone, it works by inhibiting bacterial DNA gyrase and topoisomerase IV, essential enzymes for bacterial replication. The film-coated tablet ensures optimal patient compliance and tolerability. It is a trusted therapeutic option for clinicians treating moderate to severe infections.

Composition:

Each film-coated tablet contains:

Levofloxacin Hemihydrate IP

Equivalent to Levofloxacin.....500 mg

Excipients.....q.s.

Key Benefits:

1. Broad-spectrum bactericidal action
2. Effective in respiratory, urinary, and skin infections
3. High oral bioavailability
4. Once-daily dosing improves compliance
5. Rapid symptom relief with minimal resistance issues

Indications:

1. Community-acquired pneumonia
2. Acute bacterial sinusitis
3. Chronic bronchitis exacerbation
4. Urinary tract infections (UTIs)
5. Skin and soft tissue infections
6. Pyelonephritis

7. Gastrointestinal infections (e.g., traveler's diarrhea)

Directions for Use:

1. Take orally with water
2. Can be taken with or without food
3. Swallow whole; do not chew or crush

Dosage and Administration:

1. **Adults:** 500 mg once daily for 5 to 14 days depending on the infection
2. **Renal impairment:** Dose adjustment may be required
3. Complete the prescribed course even if symptoms improve

Mechanism of Action:

- **Levofloxacin** inhibits bacterial DNA gyrase and topoisomerase IV, which are essential for DNA replication, repair, and transcription.
- This disruption in DNA function leads to rapid bacterial cell death.
- It is bactericidal and effective against pathogens like *E. coli*, *Streptococcus pneumoniae*, *Staphylococcus aureus*, *Klebsiella*, *Haemophilus influenzae*, and atypical organisms.

Safety Information:

1. Not recommended for use in children, pregnant or lactating women without physician supervision
2. Use with caution in patients with CNS disorders or a history of tendon disorders
3. Adequate hydration is recommended during treatment

Contraindications:

1. Hypersensitivity to Levofloxacin or other quinolones
2. Tendon disorders related to fluoroquinolone use
3. Epilepsy or history of seizures

Side Effects:

1. Nausea, diarrhea, headache
2. Dizziness, insomnia
3. Rare: Tendon rupture, QT prolongation, hypersensitivity reactions

Important Notice:

- Avoid exposure to sunlight or UV light during therapy
- Do not take antacids or multivitamins within 2 hours of taking the tablet
- Not to be used in viral infections
- Always follow the prescribed dosage schedule

Storage Condition:

1. Store in a cool, dry place below 25°C
2. Protect from moisture and direct sunlight
3. Keep out of reach of children

Packing Information:

- Packed in ALU-ALU blister strips
- Each strip contains 10 tablets
- 10 strips per pack (10 x 10 tablets = 100 tablets)

