Brand Name: AMIREKA 500

Composition: Amikacin Sulphate injection I.P.

Dosage Form: Injection

Category: Antibiotic – Aminoglycoside

Packaging Type: VIAL Packaging: 500 mg / 2 ml

Brief Product Information:

AMIREKA 500 is a sterile antibiotic injection manufactured by AstraEureka Pharmaceuticals, a trusted manufacturer of composition containing Amikacin Sulphate I.P. equivalent to 500 mg of Amikacin per 2 ml. It is used to treat serious bacterial infections, including infections of the respiratory tract, urinary tract, bones, joints, abdomen, and bloodstream, especially when caused by gram-negative organisms. Amikacin, an aminoglycoside antibiotic, works by inhibiting bacterial protein synthesis, leading to bacterial cell death. The formulation also includes Methyl Paraben and Propyl Paraben as preservatives.

Composition:

Each 2 ml contains:

Amikacin Sulphate I.P. equivalent to Amikacin.....500 mg Methyl Paraben I.P...... 0.18% w/v Propyl Paraben I.P......0.02%w/v.

Key Ingredients:

- ty Products From A Amikacin Sulphate I.P. (500 mg equivalent).
- Methyl Paraben I.P. 0.18% w/v.
- Propyl Paraben I.P. 0.02%w/v.

Key Benefits:

- 1. Broad-spectrum activity against resistant gram-negative bacteria
- 2. Effective in severe infections where other antibiotics may fail
- 3. Rapid bactericidal action
- 4. Can be used in combination with other antibiotics for synergistic effect

Indications:

- 1. Respiratory tract infections
- 2. Urinary tract infections
- Intra-abdominal infections.

- 4. Bloodstream infections (sepsis)
- 5. Bone and joint infections
- 6. Post-operative and hospital-acquired infections

Directions for Use:

- 1. Administered by intramuscular or intravenous injection
- 2. To be given by a trained healthcare professional only
- 3. Reconstitute if required and use aseptic technique

Doses and Administration:

- 1. Adults: 15 mg/kg/day in 2–3 divided doses
 - Dose adjusted in renal impairment based on creatinine clearance
 - Duration and frequency as prescribed by the physician

Safety Information:

- 1. Monitor kidney function during prolonged therapy
- 2. Audiometry monitoring advised in long-term or high-dose therapy
- 3. Use with caution in elderly or dehydrated patients
- 4. Avoid mixing with other drugs in the same syringe

Mechanism of Action:

 Amikacin binds to the 30S ribosomal subunit of bacteria, disrupting mRNA translation and inhibiting protein synthesis.

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• This leads to faulty bacterial proteins and cell death. It is particularly effective against gram-negative organisms, including Pseudomonas, E. coli, and Klebsiella. Quality Products

Contraindications:

- 1. Hypersensitivity to aminoglycosides
- 2. Known auditory or vestibular toxicity
- 3. Myasthenia gravis
- 4. Severe renal impairment without dose adjustment

Side Effects:

- 1. Nephrotoxicity (kidney damage)
- 2. Ototoxicity (hearing loss, tinnitus, vertigo)
- 3. Injection site reactions

4. Headache, rash, or nausea (rare)

Important Notice:

- Not for self-administration
- Dosage must be individualized and monitored
- Avoid concurrent use with other ototoxic or nephrotoxic drugs

Storage Condition:

- 1. Store below 25°C
- 2. Protect from light and heat
- 3. Do not freeze
- 4. Keep out of reach of children wality Products &

Packing Information:

- Each vial contains 2 ml (500 mg) of Amikacin Injection
- Available in sealed sterile vials for hospital and clinical use

