

## **AC 555**

Oral powder for poultry use.

Active substances: Ciprofloxacin, Amoxicillin.

### **Composition**

1 g of powder contains:

- **Ciprofloxacin** – 200 mg
  - **Amoxicillin** – 100 mg
- Excipients: lactose, aerosi

### **Description**

White or yellowish powder with a characteristic odor.

### **Pharmaceutical Form**

- 1 g in silver three-layer sachet (double-sided polypropylene, metallized foil)
- 50 g and 250 g in silver three-layer sachet (polyethylene terephthalate, aluminum foil, polyethylene)

### **Pharmacological Properties**

**Amoxicillin** – a semi-synthetic antibiotic from the penicillin group with a broad spectrum of activity against penicillin-sensitive aerobic Gram-positive bacteria (*Staphylococcus* spp., except penicillinase-producing strains; *Streptococcus* spp.) and aerobic Gram-negative bacteria (*Haemophilus* spp., *Klebsiella* spp., *Pseudomonas* spp., *Pasteurella* spp., *Salmonella* spp.).

Its mechanism of action is based on inhibition of bacterial cell wall synthesis, leading to lysis of microorganisms.

Amoxicillin is used in infections of the respiratory system, gastrointestinal tract, genitourinary system, and surgical infections caused by microorganisms sensitive to amoxicillin, especially streptococcal and staphylococcal infections.

**Ciprofloxacin** – an antibacterial agent of the fluoroquinolone group with a pronounced broad-spectrum bactericidal activity against Gram-positive and Gram-negative microorganisms (both in latent and replication phases). Its bactericidal effect depends on the concentration of the drug. It inhibits bacterial DNA gyrase, disrupting DNA replication and protein synthesis.

Ciprofloxacin is active against Gram-positive bacteria (Staphylococcus, Streptococcus) and Gram-negative bacteria including various strains (Pseudomonas aeruginosa, Klebsiella spp., E. coli, Enterobacter, Campylobacter, Vibrio cholerae, Salmonella, Pasteurella, Clostridium, Haemophilus).

After oral administration, AC 555 is well absorbed from the gastrointestinal tract of poultry, widely distributed in organs and tissues. Maximum concentration is reached and maintained for 6 hours, and therapeutic concentration persists for 24 hours.

### **Indications**

AC 555 is used for treatment and prevention of bacterial diseases in all types of poultry, including:

- Respiratory infections (bronchitis, bronchopneumonia, pneumonia, pleuritis, post-viral complications)
- Gastrointestinal and genitourinary infections
- Avian cholera
- Surgical infections, streptococcal and staphylococcal infections
- Colibacillosis, salmonellosis, and mycoplasmosis

### **Side Effects**

No side effects observed when used according to instructions.

### **Contraindications**

Hypersensitivity to beta-lactam antibiotics.

### **Target Species**

Poultry.

### **Dosage and Administration**

Administered orally with drinking water.

Poultry: Dissolve 1 g of product in 4 liters of drinking water for 3–5 days.

### **Special Warnings**

To ensure full consumption of medicated water, remove all other water sources several hours before administration.

Prepare the solution immediately before use. Do not store leftovers.

It is recommended to check water pH as it may affect solubility, bioavailability, and stability of active substances.

Incorrect dosing (under- or overdosing) contributes to antimicrobial resistance.

### **Precautions for the Person Administering the Product**

Follow personal hygiene and veterinary safety rules. Avoid contact with skin and eyes. Wear disposable gloves. Wash hands after use. In case of accidental contact, wash immediately with soap and water. In case of accidental ingestion, seek medical advice and show the package leaflet or label.

### **Interaction**

Do not use together with tetracyclines, macrolides, or similar antibiotics due to antagonistic effects.

### **Overdose**

Overdose in young animals may cause cartilage degeneration, impaired bone development, lameness, and pain. May also cause loss of appetite, diarrhea, erythema, itching, and photosensitivity reactions.

### **Withdrawal Period**

Poultry may be slaughtered for meat 11 days after the last administration.

Do not use in laying birds producing eggs for human consumption.

### **storage Conditions**

Store in a dry place, protected from light, at temperatures not exceeding 25°C.

Shelf life: 2 years.

Do not use after expiry date.

### **Disposal**

Do not dispose of via wastewater or household waste. Ask your veterinarian how to dispose of unused product. These measures help protect the environment.

For veterinary use only.

Supplied by veterinary prescription only.

Keep out of reach of children.

Pharmacotherapeutic group: QJ01 – Antibacterials for systemic use.

Manufacturer: **LLC Biotecs**, Georgia, Tbilisi, 8 Yumashev Street.