

ALBEZINI

Albendazole, Zinc Oxide

Dosage Form

Oral tablets, for veterinary use only.

Pharmacotherapeutic Group

Anthelmintic agent

ATC vet code: QP52AC11

Target Species

Farm animals, fur-bearing animals and poultry.

Composition

1 tablet contains active substances:

- **Albendazole – 360 mg**
- **Zinc oxide – 100 mg**

Excipients: potato starch, polyvinylpyrrolidone, lactose, talc, magnesium stearate, aerosil (colloidal silicon dioxide), croscarmellose sodium.

Description

White or almost white tablet, scored on one side, marked “BIO” on the other side. White speckles may be present.

Presentation

- **50 tablets in polyethylene bottle**
- **90 oral tablets**
- **15 tablets in blister pack, 6 blisters in carton box**

Pharmacological Properties

Albendazole is a benzimidazole carbamate derivative with broad-spectrum activity. It is active against adult and immature forms of nematodes, cestodes and trematodes and has ovicidal properties, reducing pasture and housing contamination.

Albendazole inhibits microtubule polymerization, disrupting glucose transport in helminths, leading to functional damage of the microtubular system, parasite death and elimination. In intestinal helminthiasis, a single dose is effective. Bioavailability increases after feeding.

Zinc has antiseptic, adsorbent, anti-inflammatory, astringent and disinfectant effects. It participates in metabolic processes including protein and collagen synthesis. It promotes epithelialization and regeneration of tissues damaged by parasites in the gastrointestinal tract.

Zinc forms a protective barrier on damaged intestinal areas by protein denaturation, facilitating regeneration of intestinal wall tissues.

The combination of zinc and albendazole minimizes albendazole side effects (liver dysfunction, leukopenia, hypersensitivity reactions), and if present, symptoms are mild.

Albezini tablets belong to hazard class 4 (low hazard substances). Animals tolerate the recommended dose well.

Pharmacokinetics

Albendazole is better absorbed orally than other benzimidazoles. Approximately 47% of the dose is excreted in urine as metabolites within nine days. The parent compound is rarely detected in plasma; therefore, therapeutic effect occurs rapidly.

Active metabolites (albendazole sulfoxide and albendazole sulfone) reach peak plasma concentration approximately 20 hours after administration.

Zinc is absorbed from the small intestine (duodenum and jejunum) via specific protein synthesized by the pancreas. It is mainly excreted in feces and urine.

Indications

Used for deworming farm animals, fur-bearing animals and poultry against:

- **Gastrointestinal nematodes**
- **Lungworms**
- **Cestodes (tapeworms)**

- Trematodes (flukes)
- Liver fluke infestations
- Larval and adult helminths
- Has ovicidal activity

Diseases treated include:

Gastrointestinal helminthiasis:

Haemonchosis, Bunostomosis, Oesophagostomosis, Nematodiriasis, Ostertagiosis, Cooperiosis, Strongylatosis, Trichostrongylidosis, Hyostrongylosis, Parascaridosis, Trichocephalosis, Toxocariasis, Toxascaridosis, Uncinariasis, Ascariasis, Heterakidosis.

Pulmonary helminthiasis:

Dictyocaulosis, Protostrongylosis, Muelleriosis, Neostromylosis, Cystocaulosis, Metastrongylosis.

Cestodosis:

Monieziosis, Avitellinosis, Thysanieziosis.

Trematodosis:

Fasciolosis, Dicrocoeliosis, Paramphistomidosis.

Dosage and Administration

Administer orally without prior fasting, individually or group method (poultry), mixed with feed.

Single dose; for fur animals and poultry – twice.

Cattle:

- GI and lung nematodes: 1 tablet / 50 kg body weight
- Cestodes: 1 tablet / 35 kg
- Trematodes: 1 tablet / 25–35 kg

Sheep, goats:

- Nematodes & cestodes: 1 tablet / 35–70 kg
- Trematodes: 1 tablet / 45 kg

Pigs:

- **GI nematodes: 1 tablet / 20–35 kg**

Horses, donkeys, mules:

- **1 tablet / 50 kg**

Fur animals, rabbits:

- **1 tablet / 7–10 kg**

Poultry:

- **GI nematodes: 1 tablet / 25–30 kg**
 - **Lung nematodes: 1 tablet / 30–35 kg**
Once daily for 2 days.
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Side Effects

No side effects observed even at three times the therapeutic dose.

Contraindications

Hypersensitivity to components.

Do not use in debilitated animals, acute fasciolosis, or during the first third of pregnancy.

Withdrawal Period

- **Slaughter for meat: not earlier than 14 days after deworming**
 - **Milk: 3 days**
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Storage Conditions

Store in a dry, dark place at temperature not exceeding 25°C.

Shelf life: 3 years.

Manufacturer country: Biotecs, Georgia.

