

METRAZOL SUSPENSION

REGISTRATION NUMBER Q-0790-076

ANTIMICROBIAL AND IMMUNOMODULATORY AGENT

FORMULATION:

Each ml contains:

Metronidazole 25 mg
Vehicle q.s. 1 mL

DOSAGE SIZE AND FORM:

Bottle with 30 mL

VETERINARY USE

ORAL SUSPENSION

METRAZOL is an oral broad-spectrum antibacterial antiprotozoal for use in dogs and cats.

INDICATIONS:

Antimicrobial and immunomodulatory agent. Drug product of choice against *Giardia spp.* infections in puppies. Useful when diarrhea and flatulence caused by bacterial microorganisms sensitive to the formula occur. It is also recommended in case of short bowel syndrome, anaerobic infections of the oral cavity, hepatic encephalopathy, cholangitis and inflammatory bowel disease.

Metronidazole is a synthetic nitroimidazole-derivative that was introduced into therapeutics in 1959 for the treatment of infections caused by *Trichomonas vaginalis* in humans. However, other advantages were found, such as its activity against anaerobic germs and many other protozoa.

MECHANISM OF ACTION: it acts on electron-carrying proteins in the respiratory chain of anaerobic bacteria, while it is introduced between DNA strands by inhibiting the synthesis of nucleic acids in other microorganisms. Metronidazole is effective against both dividing and resting cells. Due to its mechanism of action, low molecular weight, and very low protein binding, metronidazole is very effective as an antimicrobial agent, and it practically does not induce resistance.

PHARMACOKINETICS AND PHARMACODYNAMICS: Metronidazole penetrates bacterial cells by passive diffusion, being activated by a reduction process in those cells that have an adequate enzyme system, such as anaerobic bacteria. It is lipophilic and rapidly absorbed and distributed; it is distributed to all tissues such as bones, bile, saliva, pleura, abscesses, prostate, and seminal fluids. It also crosses the blood-brain barrier, reaching significant levels in the cerebrospinal fluid, as well as the placental barrier, being excreted in milk. It has a low protein binding (20% in humans). Tissue penetration is excellent in almost all tissues and body fluids; it crosses the placental barrier. It is metabolized in the liver by oxidation or hydroxylation of their long-chain aliphatic and conjugation, giving rise to various metabolites, some of which retain antimicrobial activity, with a half-life of 6 to 12 hours in humans, and of 4 to 5 hours in dogs. Approximately 60 to 80% of the dose is eliminated renally, the rest is eliminated by feces. It is excreted in breast milk.

SPECIES: Exclusively domestic Felines and Canines.





ROUTE OF ADMINISTRATION: Oral

DOSE:

Canines and Felines:

For *Giardia spp.*: 25 mg/kg body weight every 12 hours for 5 to 7 days (1 mL per kg of body weight) or 50 mg/kg body weight every 24 hours for 5 days (2 mL per kg of body weight.)

Canines:

For inflammatory bowel disease: 10 to 15 mg/kg of body weight every 12 hours for 5 to 7 days (1 mL per 1.6 - 2.5 kg of body weight.)

For suppurative cholangitis: 25 - 30 mg/kg every 12 hours for 4 to 6 weeks (1 mL per 0.8 - 1 kg of body weight).

For hepatic encephalopathy: 20 mg/kg every 8 hours for 4 to 6 weeks (1 mL per 1.25 kg of body weight).

WARNINGS AND/OR RESTRICTIONS:

The use of this drug product in animal species intended for human consumption is prohibited. Do not administer during gestation, lactation or in weakened animals. Use with caution in animals with liver dysfunction; if the drug product must be used in these animal patients, consider using only 25 to 50% of the usual dose. In case of sensitivity to the components, discontinue the medication. Toxicity can be observed in high doses or under chronic treatment at moderate or high doses. If acute toxicity is observed after chronic therapy, the drug product should be discontinued, and the animal patient should be offered symptomatic support.

Store in a cool, dry place, at a range of 15 to 30°C and protected from direct sunlight. Keep out of reach of children and pets. Product for exclusive use in Veterinary Medicine.

AVAILABLE BY PRESCRIPTION ONLY.

CONSULT A VETERINARY DOCTOR.

Literature exclusive for Veterinary Doctors.

Responsible for content: Technical Department.