

Berenil®

The original well - tolerated chemotherapeutic agent for modern and effective control of Babesia and Trypanosome infections.

■ Composition:

(Diminazene and Antipyrine in granular form)

Berenil® in granular form contains 44.5% of the active ingredient Diminazene (4,4'-diamidino-diazoaminobenzene-di-acetamidoacetate). In addition it contains 55.5% of the preparation phenyldimethyl pyrazolone (Antipyrine)® which has analgesic, antipyretic and antiphlogistic action. This ingredient aids in granulation, increases the rate of solution and extends the life of the prepared solution.

■ Action:

Berenil® has a direct action on the parasites. A single treatment with **Berenil®** resulted in a complete cure of Trypanosoma infection and is sufficient to attain a rapid clinical cure of Babesia infections. This form of cure, which is based on premunition, represents a desirable condition, especially in regions where Babesia infection is enzootic. This condition prevents clinical illness and can persist for months or even years without reinfection. **Berenil®** has a pronounced antibacterial effect, especially against Streptococci, Staphylococci, Corynebacteria and Brucella and it also has a certain degree of fungistatic effect.

■ Efficacy:

No appreciable drug resistance against **Berenil®** has been developed by Trypanosomes or Babesia. **Berenil®** is even effective against Trypanosoma and Babesia strains which have become resistant to other well-known drugs. It is noteworthy that advanced cases of Babesiosis associated with haematuria respond favourably, to **Berenil®** treatment as well as cases which are resistant to other drugs.

■ Pharmacokinetics:

Berenil® is rapidly absorbed. The onset of action is often recognizable half an hour following intramuscular injection and the maximum blood levels were found at 3-5 hours. These levels maintain therapeutically effective concentrations long enough to ensure that the preparation has time to destroy the parasites in the blood.

■ Tolerance:

Berenil® is well tolerated both generally and locally. The general tolerance of **Berenil®** is very good. Even very young and weak animals can be treated without risk. **Berenil®** has no effect on blood pressure and has no adverse effects on milk secretion.

■ Indications:

For treatment and control of protozoan infections in cattle, sheep, horses and dogs.

Infections with Trypanosomes: Especially Tr. congolense, Tr. vivax, Tr. brucei and Tr. evansi.

Infections with Babesia: Especially B. bovis, B. bigemina, B. ovis, B. motasi, B. Canis, B. equi and other types of Babesia.

Mixed infections: With Trypanosomes and Babesia as well as infections caused by drug-resistant strains of these parasites are particularly important fields of applications.

Infections with Theileria: Theileria annulata.

Berenil® protects cattle against Babesiosis and Trypanosomiasis for 2-4 weeks.

■ Dosage and preparation of solution:

The usual dose for all animals is 3.5 mg Diminazene per kg body weight. For infections with Tr. brucei, Tr. evansi and Theileria annulata, this dose should be doubled. Infections due to resistant strains, the dose may be increased to 8 mg / kg body weight, but the total dose of 4 gm per animal should not be exceeded. **Berenil®** is administered in a 7% aqueous solution. **Berenil®** granules dissolve very quickly in the stated amount of water. The contents of one vial of 2.36 gm **Berenil®** is dissolved in 12.5 ml water, gives 15 ml. After reconstitution, each ml contains 70 mg Diminazene and 87.3 mg Antipyrine.



■ Dosage table:

| Body weight in kg | Quantity of injectable solution in ml |
|-------------------|---------------------------------------|
| 10 | 0.5 |
| 100 | 5.0 |
| 500 | 25.0 |

In dogs:

The contents of one vial of 2.36 gm **Berenil®** are dissolved in 25 ml of distilled water.

Dosage: 1 ml / 10 kg body weight. A single-dose treatment will suffice.

Please note: overdose and repeated administration to dogs may cause central nervous symptoms in isolated cases.

■ Administration:

Berenil® is administered preferably by deep intramuscular injection. When large quantities of **Berenil®** solution are administered, it is advisable to give the injection at several sites in order to avoid local pain.

■ Stability:

Berenil® in granular form is stable under tropical conditions. The prepared **Berenil®** solution should be kept in closed glass containers and protected from direct sunlight. In such containers the solution can be stored for 14 days in a cool place and for 5 days at room temperature.

■ Presentation:

Packs of 5 vials. Each vial contains 2.36 gm **Berenil®** granules equivalent to 1.05 gm active ingredient.

