

BPS-LA

INJECTION

For Veterinary Use Only

COMPOSITION:

Each ml contains
Benzathine Penicillin G 100,000 IU
Procaine Penicillin G 150,000 IU
Dihydrostreptomycin Sulphate eq. to Dihydrostreptomycin 200 mg

INDICATIONS:

BPS-LA injection is indicated for prevention and treatment of; Respiratory Tract Infections: Upper respiratory tract infections, bronchopneumonia, shipping fever.
Urogenital Tract Infections: Pyelonephritis by *Corynebacterium* renal, endometritis.
Streptococci infections in horses like strangles.
Clostridia Infections like tetanus and anthrax.
Mastitis.
Septicaemia.
Polyarthritis (Navel ill).
Bacterial infections secondary to viral ones.
Post-operative prevention of infections.

DOSAGE AND ADMINISTRATION:

Administer the following dose by intramuscular injection. Dosage can be repeated after 2-3 days with a professional opinion.

Cattle / Buffalo / Horse: 5ml per 100kg body weight.

Sheep / Goat: 1ml per 10kg body weight.

Do not administer more than 20ml in cattle, horse and more than 5ml in calves, sheep and goats per injection site.

PHARMACOLOGICAL PROPERTIES:

Pharmacotherapeutic group: Antibacterial for systemic use, Combinations of antibacterial.

Penicillin G is a beta-lactam antibiotic and its structure contains the beta-lactam ring and thiazolidine ring common to all penicillin. Beta-lactam antibiotics prevent the bacterial cell wall of susceptible Gram-positive bacteria from forming by interfering with the final stage of peptidoglycan synthesis. They inhibit the activity of trans peptidase enzymes which catalyse cross-linkage of the glycopeptide polymer units that form the cell wall. They exert a bactericidal action but cause lysis only of growing cells.

Dihydrostreptomycin is an aminoglycoside antibiotic active against gram-negative aerobes, which after penetration of the cell envelope binds to receptors on the 30S sub unit of the bacterial ribosome. It induces misreading of the genetic code on the ribonucleic acid (mRNA) template, causing bacteriostatic. Aminoglycosides exert synergistic action in

combination with beta-lactam antibiotics.

The penicillin elimination half-lives are approximately two hours for sheep and pigs, five hours for cattle and 11 hours for horses.

Dihydrostreptomycin is absorbed at a similar rate, with maximum plasma levels of 23µg/ml being obtained for cattle, sheep and pigs and 15µg/ml for horses. The elimination half-lives are approximately two hours for cattle, sheep and pigs and four hours for horses.

INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION:

Do not administer with other antibiotics such as tetracyclines or with other aminoglycosides

CONTRAINDICATIONS:

Contraindicated in known cases of hypersensitivity to penicillin.

WITHDRAWAL TIME:

Meat: 30 days.

Milk: 3 days.

PRECAUTIONS:

Shake well before use.

Do not administer in pregnant animals.

Consult the veterinarian before use.

Keep out of the reach of children.

Store between 15-25°C in a cool and dry place.

Selmore's Specs



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