

ACTIBOL INJECTION

For Veterinary Use Only

COMPOSITION:

Each ml contains:

Cyanocobalamin (Vitamin B12)	500mcg
Sodium Selenite	1mg
Adenosine Triphosphate (ATP) tetra sodium Dihydrate salt	1mg
Potassium Aspartate semi hydrate	10mg
Magnesium Aspartate Tetrahydrate	15mg

INDICATIONS:

Actibol Injection is used in Vitamin B12, trace elements and mineral deficiencies including muscle disorders, fatigue, convalescence, poor start in young animals, travel sickness, stiff-lamb disease, enzootic paraplegia, myositis, azoturia, transport stress, lack of cobalt. Vitamin B12 plays an important role in the formation of blood, the formation of nucleic acids and the catabolism of glycosides. It is important in the building of the myoglobin nucleus. Selenium is assigned an important role in muscle cell metabolism and the integrity of cell membrane.

CONTRAINDICATIONS:

Do not use in animals with cardiac dysfunction.

Do not use in animals with known sensitivity to any of the ingredients of the product.

ADVERSE REACTIONS (FREQUENCY AND SERIOUSNESS)

- Diarrhea
- Nausea
- Upset stomach
- Itching
- Rash
- Dizziness
- Weakness
- Numbness
- Facial flushing
- Intense Abdominal Pain

USE DURING PREGNANCY, LACTATION OR LAY

Not described.

INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION

Aminoglycosides, amino salicylic acid and its salts, anticonvulsants, cobalt irradiation of the small bowel, extended-release potassium preparations: Decreases vitamin B12 absorption from GI tract. Don't use together.

DOSAGE & ADMINISTRATION:

Routes of administration by subcutaneous, intramuscular or slow intravenous injection.

Mature Cattle: 20ml per animal for 4-5 days

Calves: Myopathies: Prevention: 4 injections of 10ml per animal at 8-day intervals.

Treatment: 3 to 4 injections of 10 ml per animal

Sheep & Goat: 2-4ml per animal for 4-5 days

Dogs, Cats: 1-2ml per animal.

Poultry: oral route: 5ml per 10 litres of drinking water

WITHDRAWAL PERIOD:

Meat – 0 days

Milk – 0 days

PHARMACOLOGY:

Cyanocobalamin and its analog hydroxycobalamin are

equivalents of the natural Vitamin. Adenocobalamin and methylcobalamin are alkyl derivatives synthesized from the vitamin serving as coenzymes.

Sodium Selenite: Selenium is an integral part in the glutathione peroxidase (GSHpx) enzymes, which are involved in the protection from oxidant stress. These enzymes have a synergistic role with vitamin E and other antioxidants in removing toxic peroxides from tissue and preventing oxidative damage to membranes. Selenium is required in the thyroid gland for the conversion of T4 to T3, the active thyroxine molecule as selenium is required in the iodothyronine deiodinase enzymes.

Adenosine triphosphate (ATP) is a complex organic chemical that provides energy to drive many processes in living cells, e.g. muscle contraction, nerve impulse propagation, and chemical synthesis. Found in all forms of life, ATP is often referred to as the "molecular unit of currency" of intracellular energy transfer. When consumed in metabolic processes, it converts either to adenosine diphosphate (ADP) or to adenosine monophosphate (AMP).

Potassium aspartate is used for treatment of myopathy and muscular dystrophy in young cattle, sheep and goat. Potassium cation is an essential electrolyte that is important for maintenance of intracellular osmotic pressure and cell membrane potentials.

Magnesium aspartate, the chelated magnesium salt of aspartic acid, it is a mineral supplement. Magnesium trace element that is essential

- For surface protein, fat and energy in the body.
- To prevent muscle cramps and lethargy.

Magnesium is the second most abundant cation of intramuscular fluids. Magnesium is an essential cofactor for many enzymes especially phosphotransferases, and plays important role in reversible association of intracellular particles and in binding of macromolecules to subcellular organelles. Magnesium plays an important role in neurochemical transmission, muscular excitability and cardiovascular system.

PRECAUTIONS:

Do not mix the product with another substance in the same syringe.

In Horses when intravenously administered always inject very slowly.

Do not administer to animals with hypersensitivity to active ingredient.

Keep at room temperature, protect from light.

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

Keep out of the reach of children.

Consult the veterinarian before use.

PACKING:

10ml

50ml

100ml

Innovator's Specs



Selmores
Pharmaceuticals (Pvt) Ltd.

Manufactured by:
Selmores Pharmaceuticals (Pvt) Ltd.
36 Km Multan Road, Lahore, Pakistan.



ISO CERTIFIED COMPANY