

120x189mm

STERIVIT INJECTION



For Veterinary Use Only

Composition:

Each ml contains
DL-acetylmethionine.....200mg
Cyanocobalamin.....0.2mg
L-Carnitine hydrochloride 61.3mg eq. to L-Carnitine.....50mg
Alpha-tocopherol acetate 32.9mg eq. to alpha-tocopherol.....30mg

Description:

Sterivit Injection is an injectable combination of DL acetylmethionine (in the water-soluble acetylated form), Carnitine, α -Tocopherol (Vit. E) and Cyanocobalamin (Vit. B12); four active substances which interact on various metabolic mechanisms involved in the processes of detoxification, transportation and utilization of fatty acids for energy purposes.

Once absorbed, acetylmethionine releases methionine as pure amino acid. Cyanocobalamin binds itself to specific plasmatic protein and rapidly diffuses through all tissues, particularly the liver, where it is stored; excessive cyanocobalamin is eliminated via the urine.

The passage of L-carnitine from the blood to the tissues takes place via active transport across cell membranes; it concentrates in tissues with high capacity to oxidize fatty acids: cardiac and skeletal muscles and liver. Apart for a minute portion, which is esterified, L-carnitine is not metabolized and is eliminated by renal function in direct proportion with the blood concentration.

Alpha-tocopherol (vitamin E) is transported into the blood circulation by beta-lipoprotein to be largely distributed into tissues and stored in the liver, where it is metabolized; the elimination is mostly via the bile and partially via the urine.

Sterivit Injection is, therefore, indicated to provide nutritional support and is to be administered in adjunct to standard therapy in animals suffering from a wide range of dysfunctions and defective metabolic states at the level of various organs, such as: the liver, heart, striated muscles, vascular endothelia and immune system. The active substances are non-toxic and do not create residue problems.

Sterivit Injection normalises metabolic equilibrium and leads to a qualitative-quantitative improvement in production.

Advantage:

The high concentration of the active ingredients and the I.M. administration route allow full utilisation of the ingredients introduced, unlike other common intravenous detoxifying solutions, where a large proportion of the active ingredients is rapidly lost with the urine.

Indications:

Sterivit Injection is indicated in cattle, horses & sheep for nutritional support and is to be administered as an adjunct to standard therapy in animals suffering from toxic and metabolic disorders, in conditions of reduced hepatic functionality, in animals facing heavy and protracted physical stimulus and for the transition cow or for pregnant ewes and mares.

Alterations in milk quality or quantity

Anorexia

Dysorexia

Convalescence

Postoperative course

Dietary imbalance and deficiencies

Poor performance

Physical fatigue and debilitation

Stress management

Dosage and Administration:

Administer by the intramuscular route.

Cattle/Horses/Camel: 5 ml/100 kg bodyweight.

Calves/Sheep/Goats/Foals: 0.5-1 ml/10 kg bodyweight.

Please make 1 injection a day and repeat daily for 3-5 days as required.

Pharmacodynamic:

Sterivit Injection is a combination for injection of DL acetylmethionine (acetylated hydrosoluble methionine), L-carnitine, DL-alpha-tocopherol (vitamin E) and cyanocobalamin (vitamin B12), four active substances which intervene in the metabolic mechanisms involved in detoxification processes and in the transport and utilisation of fatty acids for energy purposes.

Sterivit Injection is therefore indicated in support therapy of dysfunctions and dysmetabolisms to various organs and systems, such as the liver, heart, striated muscle, vascular endothelia and the immunological system.

Pharmacokinetic:

Once absorbed, acetylmethionine releases the amino acid as such.

The sulphate produced is excreted via the urine in the form of sulfanic acid.

Cyanocobalamin (vitamin B12) binds to specific plasma proteins and rapidly distributes to all tissues, more specifically the liver, where it is stored. Any excess is excreted principally by the renal route.

The transit of L-carnitine from the blood to the tissues takes place through an active transport mechanism across cell membranes. It is particularly concentrated in tissues with a high fatty-acid oxidising capacity: myocardium, skeletal muscle and the liver. L-carnitine is not metabolised except for a small part which is esterified. Elimination takes place by the renal route and is directly proportional to its blood level.

α -tocopherol (vitamin E) is transported round the circulatory system by means of α -lipoproteins. It distributes plentifully to all tissues and is stored in the liver, where it is partly metabolised. Excretion takes place principally by the biliary route, while a very small part is excreted via the urine.

Adverse reactions (frequency and severity):

None reported.

Use during pregnancy, lactation or lay:

There are no contraindications to use during pregnancy and lactation.

Interaction with other medicinal products and other forms of interaction:

Not reported.

Warning:

Sterivit Injection may occasionally result in allergic reaction, including possible anaphylaxis.

Withdrawal Time:

Nil.

Precautions:

Shake well before use.

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

Keep out of the reach of children.

Consult the veterinarian before use.

Innovator's Specs.



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