## VITAMIN B1 10% w/v Solution for injection Thiamine Hydrochloride 100mg/ml

# DATA SHEET

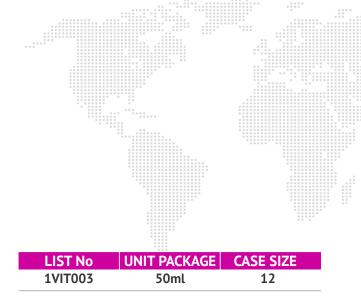


## INDICATIONS

For the treatment of cerebrocortical necrosis in cattle and sheep and as an adjunct in metabolic disorders in cattle.

## **BENEFITS**

- Is the only specialised thiamine product currently on the UK market
- Intramuscular and intravenous routes for administration
- Zero milk and meat withdrawal



See reverse side for full indications, administration and dosage.





## VITAMIN B1 **10% w/v Solution for injection**



## Thiamine Hydrochloride 100mg/ml

## PRESENTATION

A clear, colourless to greenish-yellow solution for injection containing 10% w/v (100mg/ml) Thiamine Hydrochloride

## **TARGET SPECIES**

Cattle and Sheep

## **INDICATIONS FOR USE**

For the treatment of cerebrocortical necrosis (CCN) in cattle and sheep and as an adjunct in metabolic disorders of cattle.

## **CONTRAINDICATIONS**

Do not use in cases of known hypersensitivity to the active ingredient.

#### SPECIAL PRECAUTIONS FOR USE IN ANIMALS

Intravenous injections should be given slowly. Observe aseptic techniques

## SPECIAL PRECAUTIONS TO BE TAKEN BY THE PERSON **ADMINISTERING THE PRODUCT**

Care should be taken to avoid accidental self-injection. In the event of accidental self-injection, consult medical advice immediately and show the doctor this label. Wash hands after use.

#### **ADVERSE REACTIONS**

Adverse effects are not anticipated following administration of thiamine.

#### **USE DURING PREGNANCY AND LACTATION**

It is not anticipated that the use of Vitamin B1 Injection will lead to any undesirable effects during Pregnancy and/or Lactation.

## INTERACTION WITH OTHER MEDICINAL PRODUCTS AND **INCOMPATIBILITIES**

None Known.

## AMOUNTS TO BE ADMINISTERED AND ADMINISTRATION ROUTE

By intramuscular or slow intravenous injections.

Dosage: 2.5 - 5ml per 50 kg bodyweight. Repeat every 3 hours for up to a total of 5 doses.

## **OVERDOSE**

Thiamine is very soluble in water and excess is excreted in the urine as a pyrimidine or as unchanged material. Tolerance studies have been carried out at twice the maximum recommended dose and the product was well tolerated.

## WITHDRAWAL PERIODS

Meat-Zero davs Milk-Zero hours

## PHARMACOLOGICAL PROPERTIES

Vitamin B1, also known as thiamine and as aneurine, is a water soluble vitamin. Aneurine is converted in the body to aneurine pyrophosphate (cocarboxylate) which acts as a coenzyme for several decarboxylating enzyme systems, the most important of which is decarboxylase. The enzyme is necessary for the decarboxylation of pyruvic acid, an intermediate stage in carbohydrate build-up or breakdown. When carbohydrates are a major source of energy the body requirements of aneurine increase. Deficiencies affect the nervous and gastrointestinal systems and skin.

Tissues dependent on glucose or lactate-pyruvate for energy such as the brain and heart are particularly compromised in thiamine deficiency. Thiamine deficiency may be primary, due to deficiency in the diet, or secondary, because of destruction of the vitamin in the diet by thiaminase. The principal cause of thiamine deficiency is the presence of thiamine-destroying agents which are widely distributed in nature, and produced by rumen microflora. Growing sheep are particularly susceptible, and outbreaks of cerebrocortical necrosis have been associated with sulphur in the diet.

## **EXCIPIENTS**

Benzyl Alcohol, Sodium Hydroxide, Disodium Edetate, Water for Injection.

## SHELF LIFE

Shelf-life of the veterinary medicinal product as packaged for sale: 3 vears.

Shelf-life after first opening the immediate packaging: 28 days.

## **STORAGE**

Do not store above 25°C. Protect from light. Once broached, use vial within 28 days. Discard unused material.

## DISPOSAL

Any unused product or waste material should be disposed of in accordance with national requirements.

## LEGAL CATEGORY POM-V

#### MARKETING AUTHORISATION NUMBER Vm 50146/4029

## MARKETED IN THE UK BY

**Bimeda UK** Unit 2, Bryn Cefni Industrial Park Llangefni, Anglesey, Wales, LL77 7XA 01248 725400 Use Medicines Responsibly. Noah.co.uk/responsible



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