

COSECURE™ Sheep Bolus

Continuous Release Intraruminal Device

EACH BOLUS CONTAINS:

13.4% w/w copper

3% w/w selenium

0.5% w/w cobalt

INDICATIONS

For use in areas of copper and selenium deficiencies and for improvement of cobalt supply in sheep over 25kg.

BENEFITS

- ✓ Unique Bimeda Telsol long-lasting soluble glass bolus formulation for up to eight months' supply of copper, selenium and cobalt
- ✓ The boluses provide a source of trace elements at levels compatible with the animal's daily requirements
- ✓ Helps treat and prevent actual deficiencies and prevents and treats thiomolybdate toxicity
- ✓ Bimeda Telsol boluses are the only true completely dissolving boluses designed to dissolve at a slow and constant rate for continuous mineral cover

See reverse for Administration & Dosage



**Revolutionary
soluble glass
technology**



LIST NO.	UNIT
1COS008	50 BOLUSES



COSECURE[™] Sheep Bolus

Continuous Release Intraruminal Device



Global Excellence in Animal Health

PRESENTATION

A cylindrical blue glass continual release intraruminal device.

USES

For use in areas of copper and selenium deficiencies and for improvement of cobalt supply in sheep over 25kg.

DOSAGE AND ADMINISTRATION:

Remove the bolus from the foil and ensure the bolus is at room temperature 15 -20°C before administration.

Sheep over 25kg: 1 bolus

For all classes of sheep over 25 kg live weight. One Cosecure bolus may be given at any convenient time in the sheep management year. It is particularly appropriate to give Cosecure 2 to 3 weeks prior to tupping for cover at this critical time, through to lambing and peak lactation.

Administer orally using an applicator which delivers the bolus directly into the top of the gullet. Great care should be taken not to cause any injury by rough handling or by placing the applicator too far inside the throat of the animal. Ensure that each animal has swallowed the bolus by holding the mouth closed and observing the animal for a short time. Gentle massage of the throat may facilitate swallowing of the boluses. To minimise the risk of regurgitation, avoid rough handling of animals.

In the event of suspected overdose, see carton.

CONTRAINDICATIONS AND WARNINGS

Do not dose lambs less than 25 KGs

Note - Ruminating lambs under 25kg body weight, use Cosecure Lamb bolus.

SPECIAL WARNING FOR EACH TARGET SPECIES

The product is not intended for treatment of acute clinical conditions such as nutritional muscular dystrophy.

i. SPECIAL PRECAUTIONS FOR USE

(i)Special precautions for use in animals

Do not feed copper supplemented rations nor feed stuffs high in naturally occurring copper to sheep receiving COSECURE nor administer copper or selenium by injection or copper orally while the boluses are still active (8 months), unless advised by a veterinary surgeon. In cases where the trace element status of a flock is uncertain it is advisable to seek veterinary advice.

Do not administer to breeds known to be susceptible to copper toxicity.

Do not administer to sheep that are going to be housed for longer than 6 weeks prior to lambing.

Do not administer any aids to alter dissolution of the bolus.

The boluses are sensitive to sudden

temperature changes such as those that may occur when very cold boluses are swallowed by an animal. Therefore it is important that the bolus is at room temperature (15 - 20°C) prior to administration to prevent the development of fine cracks that may change the activity of the bolus.

ii. Special precautions to be taken by the person administering the veterinary medicinal product to animals

In order to minimise the risk of contact allergy, wear gloves when handling this product.

OVERDOSE (SYMPTOMS, EMERGENCY PROCEDURES, ANTIDOTES), IF NECESSARY

Do not feed copper supplemented rations nor feed stuffs high in naturally occurring copper to sheep receiving COSECURE nor administer copper or selenium by injection or copper orally while the boluses are still active (8 months), unless advised by a veterinary surgeon.

Clinical signs of copper toxicity, which normally will only occur in cases of severe copper overdosage include jaundice, malaise, an acute drop in milk yield and, later, haemoglobinuria. Signs of selenium toxicity include CNS changes, muscle weakness, vomiting, anorexia, depression, incoordination and, after prolonged exposure, respiratory problems. In these circumstances, intravenous administration of copper and/or selenium chelating has been used.

WITHDRAWAL PERIODS

Sheep: Meat zero days; milk zero hours

PHARMACEUTICAL INFORMATION AND PRECAUTIONS

Pharmacotherapeutic group: selenium combinations
ATC vet code: QA12CE99

PHARMACODYNAMIC PROPERTIES

The active substances are the essential trace elements copper, cobalt and selenium. The boluses are designed to dissolve slowly throughout the grazing season (up to 8 months), releasing copper, cobalt and selenium.

Copper is an integral part of several enzymes with oxidase function e.g. caeruloplasmin, monoamine oxidase, cytochrome oxidase, tyrosinase, lysyl oxidase, cytochrome C and superoxide dismutase. Thus copper is essential for a variety of body functions including growth. In addition, extra copper supplementation is essential in cases of infertility due to the formation of thiomolybdates with molybdenum.

Cobalt is an integral part in Vitamin B12 (cyanocobalamin), which is important for several metabolic functions. This vitamin is synthesised by micro-organisms in the rumen and is absorbed from there into the systemic circulation. Vitamin B 12 acts as a co-enzyme in several metabolic pathways and in ruminants its main role is in the metabolism of propionate, which is required for synthesis of glucose via succinate in

the liver.

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.

PHARMACOKINETIC PARTICULARS

Following oral administration the boluses lodge in the reticulum where they dissolve slowly over a period of up to 8 months. The ultimate breakdown products are copper, cobalt and selenium in ionic form. The boluses provide a source of these trace elements at levels compatible with the animals' daily requirements.

PHARMACEUTICAL PARTICULARS

List of excipients

Phosphorus (V)-oxide
Sodium oxide
Magnesium oxide
Other oxides

SPECIAL PRECAUTIONS FOR STORAGE

Store in a dry place. Do not freeze. Protect from frost. Once the package has been opened, store unused boluses in the plastic tray in the original packaging in an airtight container.

NATURE AND COMPOSITION OF IMMEDIATE PACKAGING

Each foil pack contains 10 boluses; equivalent to 10 doses. 5 foils are provided per unit i.e 50 boluses per unit.

SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS DERIVED FROM THE USE OF SUCH PRODUCTS

Any unused product or waste materials should be disposed of in accordance with local requirements

NUTRITIONAL PRODUCT

MARKETED AND MANUFACTURED BY:

Telsol Ltd, T/A Bimeda-Telsol,
23/24 Colomendy Industrial Estate,
Denbigh,
Denbighshire, Wales.
LL16 5TA

For further information and queries, please contact Bimeda:
UK Office: +44 (0) 1248725400
Ireland Office: +353 (0) 1451 5011

**Please consult your local trained animal health advisor before using.
Please Use Responsibly.**