

MULTIMIN[®]

Injection for Sheep



Chelated trace mineral injection for sheep deficient in and/or responsive to manganese, zinc and/or selenium supplementation



WHAT IS MULTIMIN?

- ✓ Injectable source of zinc, manganese and selenium
- ✓ Increases the trace mineral status of sheep
- ✓ Ideal for “topping up” trace minerals prior to critical events when demand may increase or availability is reduced
- ✓ Disodium EDTA chelate binds and carries minerals via the blood to the liver
- ✓ Unique, patented, aqueous injection

WHY CHOOSE MULTIMIN?

1. Ideal for strategic management

MULTIMIN contains three trace minerals that aid in reproduction, growth and immunocompetence. The concept is to “top up” essential trace mineral levels prior to critical events such as joining, lambing, weaning and for young growing stock.

2. Bioavailable

MULTIMIN has been formulated to deliver a balanced ratio of zinc, manganese and selenium that bypasses the rumen for direct uptake from the blood.

3. Aqueous formulation

An aqueous formulation minimises injection site pain and reactions that are sometimes associated with other trace mineral injections.

WHY TOP UP TRACE MINERALS?

The focus of trace mineral supplementation has developed beyond correcting deficiency symptoms; to strategic mineral supplementation, which is aimed at the optimisation of reproductive performance, immune function and growth. The optimisation of particular trace minerals and the correction of subclinical deficiency may result in improvements in productivity and subsequently profitability.

1. High mineral demands during critical events

The absorption of essential micro-minerals from feed or feed supplements is often not sufficient when the demand for these minerals is high. Injectable trace minerals have been shown to be an effective way to “top up” mineral levels prior to critical events such as lambing, joining, and weaning when the animals are under large amounts of stress. This allows animals to maximise their production potential.

2. Subclinical impacts

Not all trace mineral responsive conditions of livestock are apparent as a clinical disease. A positive response to supplementation can be seen in the areas of fertility, immunity and growth in otherwise healthy animals through trace element dependant enzymatic functions.

WHEN TO TOP UP WITH TRACE MINERALS

Topping up aims to meet a short term demand and optimise the trace mineral status of the animals prior to critical or stressful events.

CRITICAL EVENTS IN THE SHEEP PRODUCTION CYCLE

Rams: Joining
Semen collection

Ewes: Joining
Lambing
Weaning

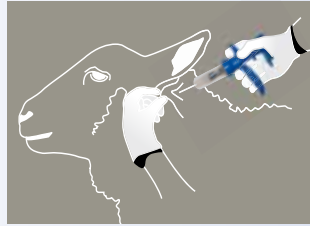
Lambs: Marking
Weaning

Young growing stock may benefit from trace mineral supplementation.

Trace mineral supplementation can help maximise growth and development, reproduction and general health of livestock.

HOW TO USE MULTIMIN

MULTIMIN should be given by subcutaneous injection high on the neck behind the ear. It is important that the needle is penetrated through the skin from top to bottom, as a sideways, or bottom to top penetration may result in some of the liquid being lost through the injection site.



Caution: avoid carcass damage

1. Sterilise all injection apparatus by boiling (or equivalent) before use. Avoid use of strong disinfectants on apparatus.
2. Maintain cleanliness at all times.
3. Keep needles sharp and clean. Replace frequently.
4. Use shortest needle possible, certainly not exceeding 15 mm.
5. As far as possible avoid injection of animals during wet weather or under dusty conditions.
6. This product should be injected only under the skin.
7. If possible inject high on the neck behind the ear.

Animals may show discomfort immediately after injection. Slight local swelling may occur for about 30 seconds after injection and a slight swelling may be observed for a few days after administration.

CONTRAINDICATIONS

This product should not be used when selenium intake from pasture is high or selenium is provided by other means (such as pasture top dressing, vaccine, pellets or selenium drenches) or if blood selenium levels at treatment are high. Users can determine selenium status by consulting their veterinarian.

PRECAUTIONS

Avoid administering to severely debilitated, stressed or drought affected animals.

Avoid administering to animals suffering from liver disease.

Avoid treating thirsty or exhausted sheep and cattle. Allow animals access to water after treatment.

COMPOSITION

- Zinc as disodium zinc EDTA 40 mg/ mL
- Manganese as disodium manganese EDTA 10 mg/ mL
- Selenium as sodium selenite 5 mg/ mL

DOSAGE

MULTIMIN is given by subcutaneous injection at the dose rate recommended below:

Sheep:

Dose Rate: 0.2 mL/10 kg (1 mL/50 kg)

Liveweight (kg)	Dose (mL)
20-25	0.5
26-30	0.6
31-40	0.8
41-50	1.0
51-60	1.2
61-70	1.4
70+	0.2 mL/10 kg

Cattle:

- Up to 1 year: 1 mL/50 kg
- 1-2 years: 1 mL/75 kg
- Over 2 years: 1 mL/100 kg

WITHHOLDING PERIODS/ESI

- Meat: Nil
- Milk: Nil
- ESI: Nil

PRESENTATION

Liquid: 500 mL

STORAGE

Store below 30°C (room temperature) in original container

Following withdrawal of the first dose, unused product should be discarded after 9 months.

APVMA Number

- 61724



The content of this document is based on the label claims of an APVMA registered product as at August 2010

