

MULTIMIN[®]

Injection for cattle

MULTIMIN Injectable Chelated Trace Minerals for Cattle

The focus of trace mineral supplementation has shifted from beyond preventing deficiency symptoms; rather it is aimed at optimising production, reproductive performance and immune function.

Correction of subclinical deficiencies can result in significant improvements in productivity and profitability. Responses to supplementation can be seen in the areas of fertility, immunity and growth in otherwise healthy animals.

WHAT IS MULTIMIN?

- Injectable source of zinc, manganese, copper and selenium - significantly increases the trace mineral status of cattle.
- Unique patented injectable formulation - is tissue friendly.
- Sodium EDTA chelate ensures excellent absorption and utilisation.
- Ideal for “topping up” minerals prior to critical times when demand may be greater or availability reduced.



WHY TOP-UP TRACE ELEMENTS?

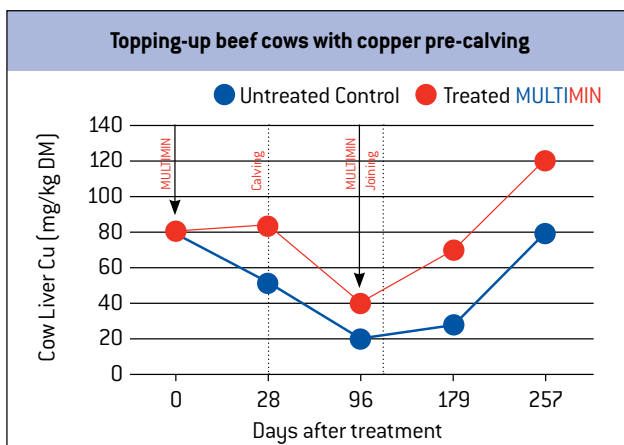
- The absorption of trace minerals from feed or feed supplements is often very poor.
- Injectable trace minerals have been shown to be an effective way to “top up” mineral levels prior to critical events such as calving and joining, or prior to times of reduced nutrition, such as the dry period of dairy cows. This allows animals to realise their production potential.
- Not all trace mineral responsive conditions of livestock are apparent as a clinical disease. Responses to supplementation can be seen in the areas of fertility and immunity and growth in otherwise apparently healthy animals.

WHY CHOSE MULTIMIN?

- ✓ Ideal for strategic supplementation – “tops up” trace mineral levels. Particularly useful prior to critical events such as calving and joining.
- ✓ Highly bioavailable - no antagonism by dietary minerals limiting absorption.
- ✓ Formulated to contain balanced post-absorption ratios of zinc, manganese, copper and selenium.
- ✓ Aqueous formulation is tissue friendly which minimises the pain and site reactions sometimes associated with copper injections.

HOW DO I ADMINISTER MULTIMIN

MULTIMIN should be given by subcutaneous injection. It is recommended that the skin on the side of the neck of cattle is slightly pulled away (“tented”) and that the recommended dose of MULTIMIN is injected from top to bottom with a sterilised 1 to 1.5cm needle. 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. If the correct procedure is followed the very slight swelling resulting from the MULTIMIN injection will disappear within a day or two and no side effects will be experienced.



Reference: Daugherty et al 2000

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QUICK REFERENCE GUIDE

DOSAGE/DIRECTIONS:

It is well recognised that there is a need to increase the efficiency of trace mineral functions in ruminants at critical times. In order to achieve this increased status in the animal, supplementation must occur four weeks prior to critical times to ensure enzyme functions are optimised when the animal is under the most stress. To optimise the trace mineral status MULTIMIN should ideally be applied at:

ADULT CATTLE:

- 4 weeks before calving
- 4 weeks before breeding AI/ET
- 4 weeks before drying-off
- At times of increased production

GROWING CATTLE:

- During the first week of life
- At weaning
- Then every 3 months
- Heifers 4 weeks before breeding/AI
- Stress situations, such as induction into feedlots, dehorning or castration
- Prior to, or after transport
- Prior to, or during a feed change

DOSAGE

Animals up to 1 year of age should receive 1mL/50 kg liveweight. From 1-2 years of age, animals should receive 1mL/75 kg liveweight. Animals over 2 years should receive 1mL per 100kg liveweight.

Liveweight (kg)	Cattle less than 1 year of age	Cattle 1 - 2 years of age	Adult cattle more than 2 years of age
50kg	1mL		
75kg	1.5mL		
100kg	2mL		
150kg	3mL		
200kg	4mL	3mL	
250kg	5mL	3.5mL	
300kg		4mL	
350kg		4.7mL	3.5mL
400kg		5.4mL	4mL
450kg			4.5mL
500kg			5mL
550kg			5.5mL
600kg			6mL

CONTRAINDICATIONS:

This product should not be administered at a rate greater than what is on the label.

PACK SIZE PRESENTATION:

- Liquid 200mL and 500mL

COMPOSITION:

Zinc 40mg/mL as disodium zinc EDTA, Manganese 10mg/mL as disodium manganese EDTA, Copper 15mg/mL as disodium copper EDTA and Selenium 5mg/mL as sodium selenite.

STORAGE:

Store below 30° Celsius (Room temperature) in original container.

WITHHOLDING PERIOD:

- Meat: Nil.
- Milk: Nil.
- ESI: Not required.

PRECAUTIONS:

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.

Excessive copper is toxic, do not administer unless copper deficiency has been confirmed.

Use only in cattle by subcutaneous injection.

Once opened, bottle and unused product should be disposed of after 2 months.

SAFETY DIRECTIONS:

May irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

Additional information is listed in the Material Safety Data Sheet.

APVMA NUMBER:

- 59628