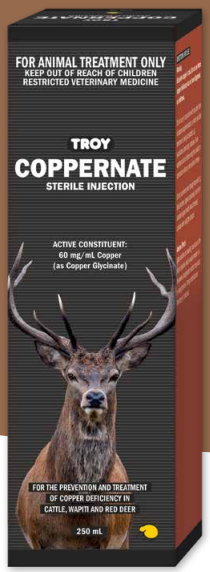
NZ PRODUCT INFORMATION SHEET

Information Provided for Veterinary Professionals Only

TROY COPPERNATE INJECTION



WHAT IS TROY COPPERNATE INJECTION?

Troy Coppernate is an injection for the prevention and treatment of copper deficiency in cattle, wapiti and red deer.

Physical Description:	A purple-blue to dark blue micronized suspension. Supernatant liquid is dark blue.
Prescription Animal Remedy Class:	Restricted Veterinary Medicine
Active Ingredient:	60 mg/mL COPPER AS COPPER GLYCINATE

WHY CHOOSE TROY COPPERNATE INJECTION?

✔ **If you have a known copper deficiency.**

- Copper is an essential trace element. In cattle, it is needed for bone development, pigmentation, healthy nerve fibres and white blood cell function.[1] In deer, it is needed for bone development, prevention of swayback and melanin formation which contributes to coat colour.[2]
- There are two main causes of copper deficiency[1]:
  1. Low copper levels in plants due to a lack of copper fertiliser in naturally copper-deficient soils.
  2. An induced deficiency caused by ingestion of excessive levels of molybdenum and sulphur in pasture or feed supplements.
- Signs of copper deficiency:
  Cattle[1]:
  1. Loss of pigment from coloured hair especially around the eyes, giving the animal a bespectacled appearance (not visible in cattle with white hair around the eyes).
  2. Falling disease – sudden heart failure causing sudden death.
  3. Lameness.

  Deer[2]:
  1. Osteochondrosis in young deer
  2. Enzootic Ataxia in older deer
  3. Faded-looking coats

✔ **Convenient 250 mL pack size** which treats 125 - 250 heads depending on dose administered.

✔ **Plastic packaging** which reduces the chance of breakage.

✔ **Australian made.**

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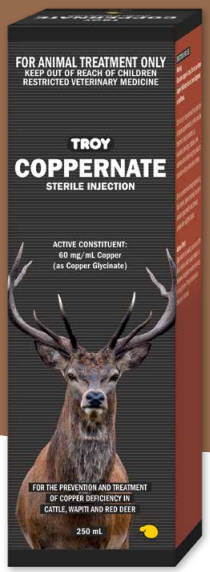

HOW TO USE TROY COPPERNATE INJECTION?

1. Sterilise all injection apparatus by boiling before use. Avoid use of strong disinfectants on apparatus.
2. Maintain cleanliness at all times.
3. Keep needles sharp and clean, replace frequently.
4. As far as possible avoid injection of animals in wet weather or under dusty conditions.
5. This product must only be injected under the skin.
6. If possible inject high on the neck behind the ear.

Dose Rate:
SHAKE WELL BEFORE USE.

CATTLE under 150 kg:	1 mL S.C., repeated in 3 – 6 months
CATTLE over 150 kg:	2 mL S.C., repeated in 6 months
WAPITI and RED DEER	1 - 2 mL A 1 mL dose provides adequate copper reserves for about one month, while a 2 mL dose provides adequate reserves for about three months. Re-dose on the advice of your veterinarian.

Needle Gauge:

For subcutaneous administration, use the shortest needle possible, certainly not exceeding 15 mm. Inject in the anterior half of the neck.

WARNINGS

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

- Do not use in conjunction with any other form of copper supplementation, or when any other treatment is being conducted; e.g. vaccination, drenching, castration. Seek veterinary advice before using this product in conjunction with any other animal remedy.
- Do not use where liver damage may exist e.g. facial eczema, ragwort poisoning. Use only in animals in good health. Avoid stressing animals when using this product.
- Swelling may occur at injection site which usually recedes in a few weeks. Anaphylactic reactions following administration may occur in young bovines. Prompt antihistamine treatment is indicated.

Safety Directions:

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

Withholding Periods: MEAT: Zero (0) days. MILK: Zero (0) days.

Storage: Store below 25 °C (air conditioning).

Please refer to carton and/or label for full product information.

References: 1. Erickson, Anna, 2019, *Copper Deficiency in sheep and cattle*, WA Agriculture and Food. 2. Deer Facts Copper. Deer Industry New Zealand, Deer Health 09 Oct 2016. https://www.deernz.org/assets/Deer-Facts/DeerFact_Copper_Web.pdf

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