



Low Copper

Injectable Trace Mineral with Vitamin B12 for Sheep

Trace mineral injection with vitamin B12 to support optimal health, production and fertility in sheep.

Product Description

Chelated trace element injection for sheep deficient in and/or responsive to copper (Cu), manganese (Mn), zinc (Zn), selenium (Se) and/or vitamin B12 supplementation.

Active Constituents:

- 26.7 g/L Zinc as disodium zinc EDTA
- 6.7 g/L Copper as disodium copper EDTA
- 6.7 g/L Manganese as disodium manganese EDTA
- 3.3 g/L Selenium as sodium selenite
- 1.4 g/L Cyanocobalamin

Product Benefits

✓ GROWTH

Marks-Min provides elements that support growth by aiding bone, joint and muscle development and function (Cu, Mn, Zn, Se) and energy metabolism (vitamin B12).

✓ REPRODUCTION

Marks-Min provides elements that support reproduction by aiding the development of male and female reproductive systems, the process of fertilization and also the maintenance of pregnancy (Cu, Mn, Zn, Se).

✓ IMMUNE DEFENCE

Marks-Min provides elements that support immune defence by aiding in the function of the immune system and white blood cells that help resist establishment of infection (Cu, Mn, Zn, Se).

✓ ENERGY

Vitamin B12 plays a key role for the production of energy in livestock. Energy is required for all body processes and is the backbone of all production.

Indications

Marks-Min Low Copper Injectable Trace Mineral With Vitamin B12 for Sheep contains selenium, copper, zinc, manganese and vitamin B12, which are required for optimal health, production and fertility. Sub-optimal trace mineral and vitamin B12 status at lambing and mating has been shown to negatively impact production, reproduction and health.

Optimising trace element status relying solely on oral supplements may fail as a result of variation in individual intake and reduced absorption because of antagonism of other ration components and minerals to these essential trace elements.

Using an injectable supplement can improve trace mineral and vitamin B12 status at these critical times, promoting a healthy immune system, which is important in resisting disease, and has a positive impact on reproduction.

Zinc has a role in:

- Cell division
- Maintaining the integrity of skin and mucous membranes and hooves
- Wool growth
- Wound healing
- Lung function
- Bone and cartilage development
- Disease resistance
- Reproduction / fertility – spermatogenesis, placental retention, udder function

Copper has a role in:

- Iron metabolism
- Blood formation
- Bone development
- Maintenance of elastic connective tissue
- Wool growth
- Disease resistance
- Reproduction / fertility

Manganese has a role in:

- Protein metabolism
- Disease resistance
- Bone, cartilage and connective tissue development
- Reproduction/ fertility – ovulation, spermatogenesis, embryo survival



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Selenium has a role in:

- Preventing cellular oxidation
- Disease resistance
- Muscle function
- Reproduction / fertility – spermatogenesis, embryo survival, placental retention

Vitamin B12 has a role in:

- Energy metabolism
- DNA synthesis
- Red blood cell production
- Nervous system function
- Reproduction/fertility

Dosage and Administration

Use the contents within 9 months of first broaching the container. Discard the unused portion.

Administer to sheep by subcutaneous injection.

Check the accuracy of the applicator before and during treatment.

Dose rate: 0.3 mL/10 kg (1.5 mL per 50 kg)

Liveweight (kg)	Dose (mL)	1 L treats
15 – 17	0.5	2000
18 – 20	0.6	1666
21 – 24	0.7	1428
25 – 30	0.9	1111
31 – 35	1.1	909
36 - 40	1.2	833
41 – 45	1.4	714
46 - 50	1.5	666
51 – 60	1.8	555
61 – 70	2.1	476
70+	0.3 mL/10 kg	

DO NOT re-treat animals for 8 weeks after the last treatment.

Excess copper is toxic. Do not administer unless copper deficiency has been diagnosed. Use Marks-Min Copper Free Injectable Trace Mineral with Vitamin B12 if appropriate.

Treatment frequency depends on the nutrient status of your flock. Consult your veterinarian or animal health consultant for supplementation advice specific to your situation.

Withholding Periods

MEAT: Zero (0) days.

MILK: Zero (0) days.

EXPORT SLAUGHTER INTERVAL (ESI): Zero (0) days.

Storage

Store below 30°C (room temperature) in original container, in a dry place. Protect from light. Keep container well closed.

Treatment opportunities

Animal Class	Timing
Rams	12 weeks pre-joining joining
Ewes	4 weeks pre-joining 4 weeks pre-lambing
Lambs	From 15 kg

