



# KOAGULON™ vitamin K1 injection

*FOR THE TREATMENT OF COAGULOPATHIES ASSOCIATED WITH COUMARIN, WARFARIN AND INDANEDIONE POISONING IN DOGS AND CATS AND WITH SWEET CLOVER (DICOUMAROL) POISONING IN HORSES AND CATTLE. FOR THE PREVENTION AND TREATMENT OF HAEMORRHAGE DUE TO REDUCED HEPATIC SYNTHESIS OF CLOTTING FACTORS.*

**PRESENTATION:** 20 mL multi-dose vial.

**ACTIVE CONSTITUENTS:** Each mL contains: Phytomenadione 10 mg.

## PROPERTIES:

**KOAGULON™ vitamin K1 injection** contains phytomenadione (Vitamin K1), which is essential for the hepatic biosynthesis of coagulation proteins, Factors II, VII, IX and X. A transient metabolite of vitamin K is thought responsible for activation of clotting factors, following which the metabolite is converted to vitamin K epoxide. The cycle is completed by the enzyme vitamin K reductase.

Anticoagulant rodenticides compete with vitamin K epoxide for the receptor site on vitamin K reductase, preventing vitamin K regeneration. Depletion of available vitamin K soon occurs and insufficient metabolite is available for activation of clotting factors. Normal coagulation processes are then inhibited by the lack of clotting factors.

Dicoumarol is the substance responsible for haemorrhage in sweet clover poisoning. Its mode of action is identical to that of the anticoagulant rodenticides, indanediones and warfarin.

Phytomenadione is more effective than menadione (vitamin K3) in the treatment of anticoagulant rodenticide toxicosis.

## DOSAGE AND ADMINISTRATION:

**Dogs and Cats:** 0.25 - 2.5 mg/kg (0.25 - 2.5 mL per 10 kg) bodyweight by intramuscular or subcutaneous injection or by slow intravenous injection in 5 % Dextrose solution at a rate not greater than 1 mg per minute.

**Horses and Cattle:** 0.5 - 2.5 mg/kg (5 - 25 mL per 100 kg) bodyweight by subcutaneous or intramuscular injection twice daily.

High doses and long-term therapy may be required for second generation coumarin-type rodenticides or indanediones.

**This product may be given only by, or under the supervision of, a registered Veterinarian.**

## WITHHOLDING PERIOD:

**CATTLE:** MEAT: DO NOT USE LESS than 28 days before slaughter for human consumption.  
MILK: Milk collected from cows within 28 days following treatment MUST NOT BE USED for human consumption or processing. This milk should not be fed to bobby calves.

**HORSES:** MEAT WITHHOLDING PERIOD: 28 DAYS.

**POISONS SCHEDULE:** Nil

**REGULATORY STATUS:** Australia APVMA No: 48406, New Zealand: ACVM No. A010507

**IN-USE BROACHING:** Use the contents within 30 days of first broaching the vial. Discard the unused portion.

**PACK SIZE:** 20 mL

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