

DOXSURE 50% POWDER

Description and Composition

DOXSURE 50% POWDER is yellow water soluble powder. Each kg contains 500g Doxycycline (as hydrochloride).

Pharmacodynamics

Doxycycline belongs to the group of tetracycline antibiotics. All tetracyclines have a broad spectrum of activity which includes Gram-positive and Gram-negative bacteria, chlamydias, rickettsias, mycoplasmas and spirochaetes. Doxycycline tends to be more active against some of these species than other tetracyclines. It is primarily a bacteriostatic antibiotic and has its main mechanism of action on inhibition of protein synthesis.

Pharmacokinetics

After oral administration, doxycycline is rapidly and well absorbed from the gastrointestinal tract. Doxycycline has a longer half-life (15-22 hours) and is more lipid-soluble than other tetracyclines. Following absorption through various routes of administration, doxycycline is widely distributed in the body with the highest levels in kidney and liver, and in bone and dentine. Doxycycline may be metabolised for up to 40% and is largely excreted in faeces (via bile and intestinal secretion), mostly in a microbiologically inactive form.

Indication

Chickens (broilers): For the treatment of Chronic Respiratory Disease (CRD) caused by *Mycoplasma gallisepticum*.

Fattening pigs: For the treatment of clinical respiratory infection caused by sensitive strains of *Pasteurella multocida*.

In case of any infective process, a bacteriological confirmation of the diagnosis is recommended, as well as a sensitivity test of the bacteria causing the process.

Recommended Dose

Administered in drinking water.

Chickens (broilers): 40 mg of DOXSURE 50% POWDER (equivalent to 20 mg of doxycycline) / kg body weight / day for 3 - 5 days

mg product per litre of water = $\frac{40\text{mg product per kg BW per day}}{\text{Water consumed by kg BW (litres)}}$ x Mean BW of animals to be treated (kg)

Fattening pigs: 20 mg of DOXSURE 50% POWDER (equivalent to 10 mg of doxycycline) / kg body weight / day for 5 days.

mg product per litre of water = $\frac{20\text{mg product per kg BW per day}}{\text{Water consumed by kg BW (litres)}}$ x Mean BW of animals to be treated

For the preparation of the medicated water the body weight of the animals to be treated and their actual daily water intake should be taken into due account. Consumption may vary depending on factors like age, state of health, breed, husbandry system. To provide the required amount of active substance in mg per litre drinking water the following calculation should be made:

..... mg Doxsure 50% Powder/ kg bodyweight / day	x	Mean body weight (kg) of the animals to be treated	=	mg Doxsure 50% Powder / litre of drinking water
Mean daily water consumption (l) per animal				

To ensure a correct dosage, body weight should be determined as accurately as possible to avoid underdosing. The intake of medicated water depends on the clinical condition of the animals. In order to obtain the correct dosage the concentration of doxycycline has to be adjusted accordingly. Do not use at concentrations lower than 0.23 g of powder /litre in drinking water with pH higher or equal to 7.5 to avoid precipitation.

No other source of drinking water should be available during the medication period. Only sufficient medicated drinking water should be prepared to cover daily requirements. Medicated water should be replaced every 24 hour.

Route of Administration

By oral administration in drinking water.

Contraindication

Doxycycline is contraindicated in patients hypersensitive to it.

Warning and Precautions

The use of doxycycline in animals with an impaired liver function should be avoided. During preparation and administration of the medicated drinking water, skin contact with the drug and inhalation of dust particles should be avoided. In the event of eye contact, rinse the eye with copious amounts of clean water and if irritation occurs, seek medical attention. In the event of accidental ingestion, seek medical advice. Wash hands and contaminated skin immediately after handling the product.

Interaction with Other Medicinal Product

Do not combine with bactericidal antimicrobials such as penicillins or cephalosporins. Solubility of doxycycline is pH dependent. Precipitation will occur in an alkaline solution. This product should therefore not be mixed with other products.

Pregnancy and Lactation

In the absence of specific studies the use of the product is not recommended during pregnancy or lactation.

Side Effects

Allergic reactions.

Photosensitivity reactions.

Intestinal flora may be affected if treatment is very prolonged. This may result in digestive disorders.

If suspected adverse reactions occur, treatment should be discontinued. Inform your veterinary surgeon if adverse reactions occur that are not indicated.

Symptoms and Treatment of Overdose

The administration of 40 mg/kg BW in pigs and 80 mg/kg in chickens for 5 days did not cause any adverse reaction. In case of overdose the treatment should be suspended and symptomatic treatment established.

Storage Condition

Store below 30°C

Shelf life

3 years. To be used within 24 hours after dilution.

Withdrawal Period

Meat and offal:

Pigs: 6 days

Chickens: 6 days

Not authorised for use in laying birds producing eggs for human consumption.

Do not use within 4 weeks of onset of the laying period.

Packing

100g, 500g pouch and 25kg carton

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