

# TYDOXIN

Water Soluble Powder



FOR VETERINARY USE ONLY

## Composition:

Each gram contains

Tylosin Tartrate .....100mg  
Doxycycline HCl .....200mg

## Indications:

Tydoxin Powder is indicated to treat infections caused by micro-organisms sensitive to tylosin and doxycycline in poultry e.g. Mycoplasmosis, Colibacillosis, Polyarthritis as well as some other bacterial diseases.

## Pharmacology:

Doxycycline is a member of the tetracycline group of antibiotics. Tetracyclines generally act as bacteriostatic antibiotics and inhibit protein synthesis by reversibly binding to 30S ribosomal subunits of susceptible organisms, thereby preventing binding to those ribosomes of aminoacyl transfer RNA. Tetracyclines also are believed to reversibly bind to 50S ribosomes and additionally alter cytoplasmic membrane permeability in susceptible organisms. In high concentrations, tetracyclines can also inhibit protein synthesis by mammalian cells, but these cells lack the active transport system found in bacteria. Tylosin being a macrolide, is thought to have the same mechanism of action as erythromycin (binds to 50S ribosome and inhibits protein synthesis) and exhibits a similar spectrum of activity. It is a bacteriostatic antibiotic.

## Toxicology:

Doxycycline is apparently quite safe in most to mild overdose situations. Oral overdoses would most likely be associated with GI tract disturbances (vomiting, anorexia, and/or diarrhea). Although doxycycline is less vulnerable to chelation with cations than other tetracyclines, oral administration of divalent or trivalent cation and antacids may bind some of the drug and reduce GI tract distress. Tylosin is relatively safe in most overdose situations. The LD<sub>50</sub> in pigs is greater than 5g/kg orally, and approximately 1 g/kg IM. Dogs are reported to tolerate oral doses of 800 mg/kg. Long term (2 years) oral administration of up to 400 mg/kg produced no organ toxicity in dogs.

## Dosage & Administration:

Administer the following dose in drinking water;  
1g per 2 liters for 3-5 days.

## Safety profile:

At recommended dosage it is a safe and well tolerated product.  
The medicated feed or drinking water must be utilized within 24 hours.

## Precautions:

Keep the Jar / Sachet tightly closed after initial use.  
Protect from light and moisture.  
Store between 15-25 °C in a cool and dry place.  
Keep out of reach of children.  
Consult the veterinarian before use.

## WITHDRAWAL TIME:

Poultry: 1 day.



Manufactured by:  
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