

# Doxacil-Vet<sup>®</sup> Powder

Doxycycline HCL BP 10%

## Composition:

Each gram Doxacil-Vet<sup>®</sup> powder contains Doxycycline HCl BP equivalent to 100 mg Doxycycline.

## Indication:

Doxacil-Vet<sup>®</sup> powder is indicated for local & systemic infections of livestock & poultry due to gram-positive & gram-negative Bacteria, Protozoa, Rickettsiae, Mycoplasma etc.

### *For Poultry:*

The drug is indicated for the prevention & treatment of Chronic Respiratory Disease (CRD), Infectious Coryza, Colibacillosis, Fowl cholera, Fowl typhoid, Infectious synovitis, Mycoplasmosis & Salmonellosis, Chlamydiosis & Necrotic enteritis etc.

### *For Large Animal:*

Doxacil-Vet powder is indicated in the treatment of primary and secondary respiratory infections caused by *Pasteurella haemolytica*, *Pasteurella multocida*, *Actinobacillus* spp. *Bordetella bronchoseptica*, *Streptococcus*, *Mycoplasma* spp. etc. It is also indicated in Pyoderma caused by Staphylococcus; in otitis media, Prostatitis, Calf scour etc.

## Pharmacology:

Doxycycline is under group of Tetracycline's which bind to the 30s ribosomal subunit of bacterial ribosome and interfere with the binding of aminoacyl-tRNA to the mRNA molecule in ribosome complex. Thereby interfere with bacterial protein synthesis in growing or multiplying bacteria. Leading to bacteriostatic but higher concentration results bacteriocidal action.

## Highlighting Points:

- Absorption rate is fair.
- Single dose due to Long half-life (18-22 hours).
- Easily cross Blood Brain Barrier & gives quick action.
- Great affinity to the lung tissues therefore especially useful for the treatment of bacterial respiratory infections.
- Administered in renal insufficiency.
- Active against some common antibiotics-resistant bacteria.
- Especially useful for treating tick-borne bacterial diseases such as Rocky Mountain Spotted Fever.

## Dosage & Administration:

*Poultry:* Treatment - 1 gram / 2 litre of drinking water for 3-7 days.

For the prevention of early chick mortality: 1 gm / 4 litre of drinking water for 3-4 days.

*Large Animal:* 15-30 mg. / kg body weight for 3-7 days.

## Contraindication & Precaution:

Doxacil-Vet<sup>®</sup> is contraindicated to poultry & animals with known hypersensitivity to any of the tetracyclines. It should not be given to dogs and cats which are pregnant or lactating.

## Side Effects:

At recommended doses the drug is well tolerated. Side effect is almost nil. Overdosing of Doxycycline to veal calves can occasionally lead to degeneration of heart muscle.

## Drug Interaction:

Should not be taken with antacids, other alkalis e.g. calcium, magnesium and iron; penicillin, anticoagulants and anticonvulsants.

## Storage Condition:

Store in a cool & dry place. Protect from sunlight & moisture. Keep out of reach of children.

**Withdrawal Period:**

For large animal is 8 days & that of Broiler is 4 days.

**Pack Size:**

10x10 gm, 100 gm & 500 gm pack.