

# Trimycin-Vet<sup>®</sup> Bolus

Sulfadiazine BP, Sulfadimidine BP, Sulfapiridine BP & Streptomycin Sulphate BP

## Composition:

Each bolus contain -

Sulfadiazine BP	1.583 gm
Sulfadimidine BP	1.583 gm
Sulfapiridine BP	1.583 gm
Streptomycin Sulphate BP	0.3132 gm (as 0.25 Streptomycin base)

## Mechanism of Action:

PABA (Para amino benzoic acid) is essential for bacterial growth & multiplication (synthesized by bacteria & supplied from environment). By different enzymatic process PABA is converted into Dihydrofolic acid at first & then Tetrahydrofolic acid. Tetrahydrofolic acid acts as a co-factor for single carbon metabolism & Nucleic acid synthesis. But due to structural similarity of PABA with Sulfonamides Dihydropteridin (essential for dihydrofolic acid synthesis) mistakenly combined with Sulfonamides instead of PABA. As a result Dihydrofolic acid synthesis is prevented. As a result bacterial DNA synthesis is interrupted. Sulfonamides are bacteriostatic in action.

Streptomycin binds to the 30s subunit of the bacterial ribosome as a result interferes with several mechanisms in the mRNA translation process. It also interferes with the initiation of DNA replication. These conditions are responsible for bacteriocidal effect. Streptomycin especially effective against enteric pathogens such as Escherichia coli.

## Indication:

It is used for the treatment of disease in cattle, horse, sheep & goat caused by the organisms sensitive to Sulfonamides & Streptomycin.

E.g. – Diarrhoea, dysentery, enteritis, calf scour, coccidiosis in calf, etc.

## Dosage & Administration:

1 bolus / 35 kg body weight on first day and followed by half dose ( $\frac{1}{2}$  bolus / 35 kg b. wt. / day) for next 3 – 5 consecutive days. Normally 2 – 3 days treatment is sufficient. Treatment may continue up to 7 days in case of secondary bacterial complication. Administer orally through drinking water or feed (by mixing with molasses, wrapping with banana leaf).

## Contraindication:

Should not be used for the animal hypersensitive to Sulfonamide & Streptomycin. And also should not be used in case of renal impairment.

## Side effect:

Comparitively it has no side effect at recommended dose. But prolonged treatment may cause Agranulosis, Haemolytic anemia & Vit-K deficiency in the body.

## Precaution:

Close observation should be needed in case of prolonged treatment. Adequate drinking water should be given during treatment the animal in case of dehydration. Avoid contact with skin due to component Streptomycin.

## Pack Size:

5 x 4 boli in blister pack.