

# Bipen-Vet<sup>®</sup> Injection

Procaine Benzyl Penicillin BP

## Composition:

Each vial contains Procaine Penicillin BP 30,00,000 IU and Benzyl Penicillin Sodium BP 10,00,000 IU.

## Indication:

Cattle, Buffalo, Horses, Sheep, Goat, Dog, Cat:

Actinomycosis, anthrax, black quarter, calf diphtheria, foot rot, leptospiriosis, malignant oedema, pneumonia, navel ill, abscess, mastitis, metritis, strangles, bacterial influenza, bronchitis, castration, pyogenic infections, urinary tract infections.

## Pharmacology:

All beta lactum antibiotics bind to bacterial cell receptors. These receptors are involved in the cross-linking of peptide side chain-transpeptidation reaction. Gram-positive bacteria have more receptors for beta lactams than gram-negative organisms. After beta lactams have attached to the cell receptors, peptidoglycan synthesis (cell wall) is inhibited because the activity of transpeptidation enzyme is blocked leads to the formation of defective cell wall that are osmotically unstable. Cell death result from cell lysis.

## Highlighting Points:

- It acts as a depot penicillin so high duration of action.
- Safe in pregnancy and lactation.
- Ensure effective concentration at the site of action.
- Frequency of administration is low so one recommended dose is enough per day.
- Especially effective for the treatment of Anthrax, BQ, Mastitis, Metritis and Castration.

## Dosage & Administration:

By deep intra-muscular injection only. Bipen-Vet<sup>®</sup> 40 injection should be diluted with 10ml Water for Injection and Injected at 24 hours interval. The drug should be used for 1-2 more days after relief of symptoms.

Animals	Body Wt.	Daily Dose
Cow, Buffalo, Horse, Sheep & Goat	10 Kg	0.2-0.5 ml
	50 Kg	1-2.5 ml
	100 Kg	2-5 ml
	200 Kg	4-10 ml
Cat, Dog & other small animals	10 Kg	0.5-1 ml
	20 Kg	1-2 ml

## Contraindication:

Bipen-Vet<sup>®</sup> 40 injection is contraindicated in animals hypersensitive to active ingredients.

## Precaution:

To minimize local irritation at the site of injection, the area should be rubbed gently. As penicillin hypersensitivity may give rise to skin rash and anaphylaxis, it is advisable to perform test before administering Bipen-Vet<sup>®</sup> 40 injection. An antihistaminic injection may be administered to avoid such reaction.

## Side Effects:

Swelling and redness at the site of injection may occur. Contact dermatitis may also result.

## Use in Pregnancy & Lactation:

Bipen-Vet<sup>®</sup> 40 injection is safe for use in pregnant and in lactating animals. However, in case of lactating animals higher dosage rate have the disadvantage of increasing penicillin residues in milk.

## Storage Condition:

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

## Pack Size:

Vial containing Bipen-Vet<sup>®</sup> 40 injection powder with 10 ml ampoule of Water for Inj.