

PG-VET

Injection

For Veterinary Use Only

COMPOSITION:

Each dry powder vial contains:

Penicillin G Procaine.....	3,000,000 IU
Penicillin G Sodium.....	10,00,000 IU
Dihydrostreptomycin Sulphate.....	5 gm

Pharmaceutical form:

Dry Powder injection.

INDICATIONS:

PG Vet injection is indicated for the treatment of respiratory tract infection, pneumonia, gastroenteritis, mastitis, metritis and other general infections of domestic animals.

DOSAGE AND ADMINISTRATION:

Add 30ml sterile waster for injection in vial and shake well to make complete solution and administered by intramuscular injection.

Cattle / Horse / Camel: 15ml per 200kg bodyweight.

Sheep / Goat: 3ml per 40kg bodyweight.

Dog / Cat / Poultry: 0.75ml per 10kg bodyweight.

Pharmacodynamics properties:

PG Vet injection is an extemporaneous suspension based on benzyl penicillin (in the form of procaine and sodium salt) and dihydrostreptomycin sulfate. The combination exerts a constant and prolonged antibacterial action and is indicated for the treatment of infections caused by a mixed microbial flora.

Benzyl penicillin is active against Gram-positive microorganisms, on which it acts by interfering with the formation of the bacterial wall during the multiplication phase with a bactericidal action.

Dihydrostreptomycin is mainly active against Gram-negative bacteria in which it blocks protein synthesis by interacting with bacterial ribosomes, with an essentially bactericidal action. The association therefore has an action on Gram-positive bacteria (including Actinomyces spp., Arcanobacterium spp., Bacillus spp., Clostridium spp., Corynebacterium spp., Erysipelothrix spp., Listeria spp., Nocardia spp., Staphylococcus spp., Streptococcus spp., Vibrio spp.), Gram-negative bacteria (including Actinobacillus spp., Bacteroides spp., Brucella spp., Campylobacter spp., Dichelobacter nodosus, E. coli, Fusobacterium necrophorum, Haemophilus spp., Klebsiella spp., Mannheimia spp., Neisseria spp., Pasteurella spp., Proteus spp., Pseudomonas spp., Salmonella spp., Shigella spp., Yersinia spp.), Rickettsiae, Spirochetes, Mycoplasmas and Mycobacteria.

Pharmacokinetic properties:

Sodium benzyl penicillin is rapidly absorbed parenterally (effective therapeutic levels after 30'), but is equally rapidly eliminated. Procaine benzyl penicillin, on the other hand, is absorbed slowly over a period of 12-24 hours, reaching blood levels that are not particularly high, of late onset, but effective from a therapeutic point of view.

Benzyl penicillin binds to plasma proteins and exhibits good diffusion, which is slower than the rate of elimination. Elimination is essentially renal.

Dihydrostreptomycin is rapidly absorbed after parenteral administration. It rapidly diffuses into tissues and organic fluids, passes through the serous membranes and the placenta. Elimination occurs partly through the bile, but mainly through the kidneys in unchanged form, as it is not metabolized. PG-Vet combines a prompt action, linked to the sodium salt of penicillin, with a prolonged antibacterial activity that covers the 24-hour period, due

to the presence of procaine benzyl penicillin and dihydrostreptomycin.

Contraindications

Do not administer to animals with known hypersensitivity to the active substances or to any of the excipients.

Do not administer to animals with renal insufficiency.

The use of the product is contraindicated where cases of penicillin resistance are known.

Do not administer to rabbits, guinea pigs, hamsters, chinchillas and small rodents in general.

The product should not be used if the presence of beta-lactamase-producing microorganisms has been confirmed.

PRECAUTIONS:

Following withdrawal of the first dose, use the product within 28 days. Do not use in animals sensitive to penicillin.

Consult the veterinarian before use.

Keep out of the reach of children.

Store between 15-25 degree centigrade in a cool and dry place.

WITHDRAWAL TIME:

Meat: 30 days.

Milk: 3 days.

Innovator's Specs



Manufactured by:
Selmores Pharmaceuticals (Pvt) Ltd.
36 Km Multan Road, Lahore, Pakistan.



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