

Penicillin Injection

Penicillin G Procaine Injectable Suspension U.S.P.



Norbrook
Pharmaceuticals Worldwide



For the treatment and control of a variety of pathogenic organisms in cattle, sheep, swine and horses.

Penicillin Injection is an effective antibacterial agent which is effective against a variety of pathogenic organisms, chiefly in the gram-positive category. Penicillin is recommended for the treatment of bacterial pneumonia (shipping fever) in cattle and sheep caused by *Pasteurella multocida*, erysipelas in swine caused by *Erysipelothrix rhusiopathiae* and strangles in horses caused by *Streptococcus equi*.

- Uniform suspension, easy-to-use syringe
- Administer intramuscularly (IM)
- For use in cattle, sheep, swine and horses
- Available in 100 mL, 250 mL and 500 mL bottles
- FDA approved NADA

Read the entire insert for full disclosure and warnings prior to use.



Penicillin Injection

For use in Cattle, Sheep, Swine and Horses.

Penicillin G Procaine Injectable Suspension U.S.P.

Read Entire Brochure Carefully Before Using This Product

DESCRIPTION

Penicillin Injection is a suspension of penicillin G procaine in 100, 250 and 500 mL multiple dose vials. Each mL is designed to provide 300,000 units penicillin G as procaine in a stable suspension.

INDICATIONS

Penicillin G Procaine is a potent antibacterial agent which is effective against a variety of pathogenic organisms, chiefly in the gram-positive category. Penicillin Injection is recommended for treatment of bacterial pneumonia (shipping fever) caused by *Pasteurella multocida* in cattle and sheep, erysipelas caused by *Erysipelothrix rhusiopathiae* in swine, and strangles caused by *Streptococcus equi* in horses.

DIRECTIONS FOR USE

A thoroughly cleaned, sterile needle and syringe should be used for each injection (needles and syringes may be sterilized in boiling water for 15 minutes).

Before withdrawing the solution from the bottle, disinfect the rubber cap top with 70% alcohol. The injection site should be similarly disinfected with alcohol. Needles of 16 to 18 gauge and 1 to 1.5 inches long are adequate for intramuscular injections.

In livestock intramuscular injections should be made by directing the needle of suitable gauge and length into the fleshy part of a thick muscle, such as rump, hip, or thigh region; avoid blood vessels and major nerves. Before injecting the solution, pull back gently on the plunger. If blood appears in the syringe, a blood vessel has been entered; withdraw the needle and select a different site.

DOSAGE

Penicillin Injection should be administered by the intramuscular route. The product is ready for injection after warming the vial to room temperature and shaking to ensure a uniform suspension.

The recommended daily dosage of penicillin is 3,000 units per pound of body weight (one mL per 100lbs body weight). Continue daily treatment until recovery is apparent and for at least one day after symptoms disappear, usually in two to three days. Treatment should not exceed four consecutive days.

No more than 10 mL should be injected at any one site in adult livestock: rotate injection sites for each succeeding treatment.

CARE OF SICK ANIMALS

The use of antibiotics in the management of diseases is based on an accurate diagnosis and an adequate course of treatment. When properly used in the treatment of diseases caused by penicillin-susceptible organisms, most animals treated with Penicillin Injection show a noticeable improvement within 24 to 48 hours. If improvement does not occur within this period of time, the diagnosis and course of treatment should be re-evaluated.

It is recommended that the diagnosis and treatment of animal diseases be carried out by a veterinarian.

Since many diseases look alike but require different types of treatment, the use of professional veterinary and laboratory services can reduce treatment time, costs and needless losses. Good housing, sanitation and nutrition are important in the maintenance of healthy animals and are essential in the treatment of disease.

DESCRIPTION

Penicillin Injection is a suspension of penicillin G procaine in 100, 250 and 500 mL multiple dose vials. Each mL is designed to provide 300,000 units penicillin G as procaine in a stable suspension.

Penicillin G Potassium*	300,000 units
Procaine Hydrochloride*	139.0 mg
Procaine Hydrochloride	2.0%
Potassium Phosphate, Monobasic	3.0 mg
Potassium Phosphate, Dibasic	6.0 mg
Sodium Formaldehyde Sulfoxylate	0.4%
Polysorbate 80	0.4 mg
Sorbitan Monolaurate (Span 20)	0.2%
Polyoxyethelene Sorbitan (Tween 20)	0.1 mg
Methyl Paraben	0.1%
Propyl Paraben	0.01%
Sodium Carboxymethylcellulose	0.15%
Water for Injection	q.s.

* Penicillin G Potassium and Procaine Hydrochloride react to form penicillin G procaine.

WARNINGS

Exceeding the recommended daily dosage of 3,000 units per pound of body weight, administering at the recommended level for more than four consecutive days and/or exceeding 10 mL intramuscularly per injection site, may result in antibiotic residues beyond the withdrawal time. Milk taken from treated dairy animals within 48 hours after the latest treatment must not be used for food. Discontinue use of this drug for the following time period before treated animals are slaughtered for food.

Cattle - 10 days, Sheep - 9 days, Swine - 7 days.

Not for use in horses intended for food.

A withdrawal period has not been established for this product in pre-ruminating calves.

Do not use in calves to be processed for veal.

Keep out of reach of children.

PRECAUTIONS

Penicillin G Procaine is a substance of low toxicity. However, side effects, or so-called allergic or anaphylactic reactions - sometimes fatal, have been known to occur in animals hypersensitive to penicillin and procaine. Such reactions can occur unpredictably with varying intensity. Animals administered Penicillin G Procaine should be kept under close observation for at least one half hour. Should allergic or anaphylactic reactions occur, discontinue use of the product and call a veterinarian. If respiratory distress is severe, immediate injection of epinephrine or antihistamine following manufacturer's recommendations may be necessary. As with all antibiotic preparations, use of this drug may result in overgrowth of nonsusceptible organisms, including fungi. A lack of response by the treated animal, or the development of new signs or symptoms suggest that an overgrowth of nonsusceptible organisms has occurred. In such instances, consult your veterinarian. Since bacterial drugs may interfere with the bacteriostatic action of tetracyclines, it is advisable to avoid giving penicillin in conjunction with tetracyclines.

Penicillin Injection should be stored between 2-8°C. (36-46°F).

MANUFACTURED FOR:

**Norbrook, Inc.
Lenexa, KS 66219**

MADE IN THE UK

