

FARMAST[®]
Suspension for intramammary administration

Description

Viscous yellow suspension with specific odor.

Composition

10 ml of the drug contains:

active ingredients: amoxicillin (amoxicillin trihydrate) — 670 mg; gentamicin (gentamicin sulfate) — 75 mg; prednisolone (prednisolone acetate) — 10 mg;

excipient - vegetable oil.

Pharmacological properties

Amoxicillin is a broad-spectrum bactericidal antibiotic of the penicillin group. It is effective against gram-positive (*Staphylococcus spp.*, which do not produce penicillinase, *Clostridium spp.*, *Arcanobacterium spp.*, *Bacillus anthracis*, *Listeria monocytogenes*, *Erysipelothrix rhusiopathiae*) and gram-negative microorganisms (*Pasteurella spp.*, *Mannheimia haemolytica*, *Haemophilus spp.*, *Actinobacillus spp.*, *Escherichia coli*, *Salmonella spp.*, *Moraxella spp.* and *Fusobacterium spp.*). Amoxicillin inhibits synthesis of mucopeptide – one of the components of bacterial cell wall, which ensures mechanical stability of microorganism, and thereby destroys bacteria in its growth stage.

Gentamicin belongs to aminoglycoside antibiotics. It makes bactericidal effect against gram-negative microorganisms such as: *Enterobacter aerogenes*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, *Escherichia coli*, *Salmonella spp.* and *Shigella spp.* Gentamicin is also effective against such gram-positive bacteria as *Treponema hyodysenteriae*, *Staphylococcus aureus* and β -hemolytic *Streptococcus*. It makes direct effect upon ribosomes, where it inhibits biosynthesis of proteins and decreases accuracy of translation of genetic code. Penetration of gentamicin into bacterial cell intensifies as permeability of its wall increases under the effect of amoxicillin. Such a synergism makes it possible to use less aminoglycosides.

Prednisolone is a dehydrogenated analogue of hydrocortisone. It has the properties inherent to other compounds of this group, that is: anti-inflammatory, desensitizing, anti-allergenic, antishock and anti-toxic. Through stimulation of steroid receptors the drug induces formation of special class of proteins - lipoproteins, which have antiedemic activity, as well as reduces activity of hyaluronidase and reduces permeability of capillaries.

The combination of amoxicillin and gentamicin creates a broad antibacterial spectrum of effect upon gram-positive (mainly - streptococci, staphylococci and corynebacterium) and gram-negative microorganisms (particularly – *Escherichia coli*, *Pasteurella spp.*, *Salmonella spp.* and *Pseudomonas spp.*). This combination improves therapeutic properties of each of these antibiotics applied separately.

Administration

Farmast[®] is used to treat clinical and subclinical bacterial mastitis caused by microorganisms sensitive to the drug components in cattle.

Dosage

Administer the contents of a single syringe tube (10 ml) heated to body temperature into the teat canal of the injured quarter of the milked dry mammary gland once daily until complete clinical recovery (1-4 days).

Contraindications

Do not administer to animals with hypersensitivity to the drug components.

Precautions

Consumption of milk and animal slaughter is possible in 7 days following the last administration of the drug. Milk and meat obtained before the mentioned term shall be utilized or fed to non-productive animals depending on the statement of veterinary physician.

Packaging

Plastic syringe tubes of 10 ml, 20 pcs. in package.

Storage

Store in original packaging in a dry, dark place out of the reach of children at 5–30 °C.

Shelf life

18 months.