Pi-DATA VET

MEDICINE MANUAL

Pi FARMA
Pharmaceutical innovation

Dear colleagues,

Hasvet, which continues to make strong strides in the field of medical equipment, software, surgical instruments and industrial products in the Animal Health sector, transmited this success to the Veterinary pharmaceutical sector in February 2021 and incorporated Pi FARMA into its ecosystem. Our vision is to create a living ecosystem by taking a patient-oriented approach, to obtain a strong single light by making each structure of this system shine separately and to illuminate every part of veterinary medicine.

We are grounded on quality production with the aim of becoming a global pharmaceutical manufacturer and exporter by increasing our R&D competence for the future of the pharmaceutical industry. In addition to the GMP (Good Manufacturing Practices) and ISO 9001 certificates that we have, all arrangements have been made with the smallest detail in mind to ensure its continuity.

In addition, as a ring of the ecosystem, we give importance to science and education in order to contribute to the professional development of each of our colleagues, to be there for the diagnosis and treatment of each patient, and to make the lives of our healthy friends comfortable.

As Pi FARMA, we will continue to work with all our strength by putting the patient in our focus and to take firm steps forward towards becoming a leading brand in the world animal health sector.

A structure designed with the ecosystem rings,

The golden ratio in the structure,

The perfect harmony provided by the ratio,

The endless spiral shaped by harmony,

Where innovative ideas and ideas from the spiral converge.

"Pi Farma" Pharmaceutical Innovation...

We look forward to the dreams of the future that we have built together with the strength we give each other, and we express our sincere thanks to all our colleagues who have been by our side.

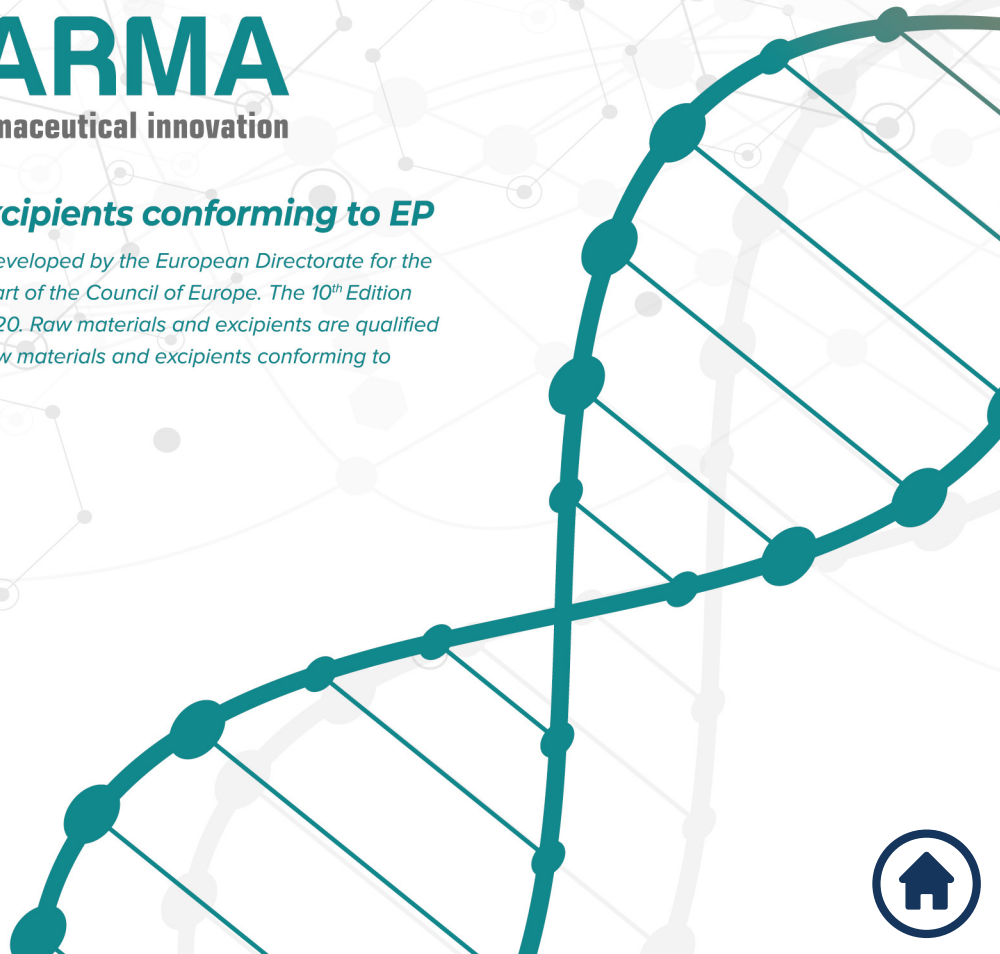
Best regards,

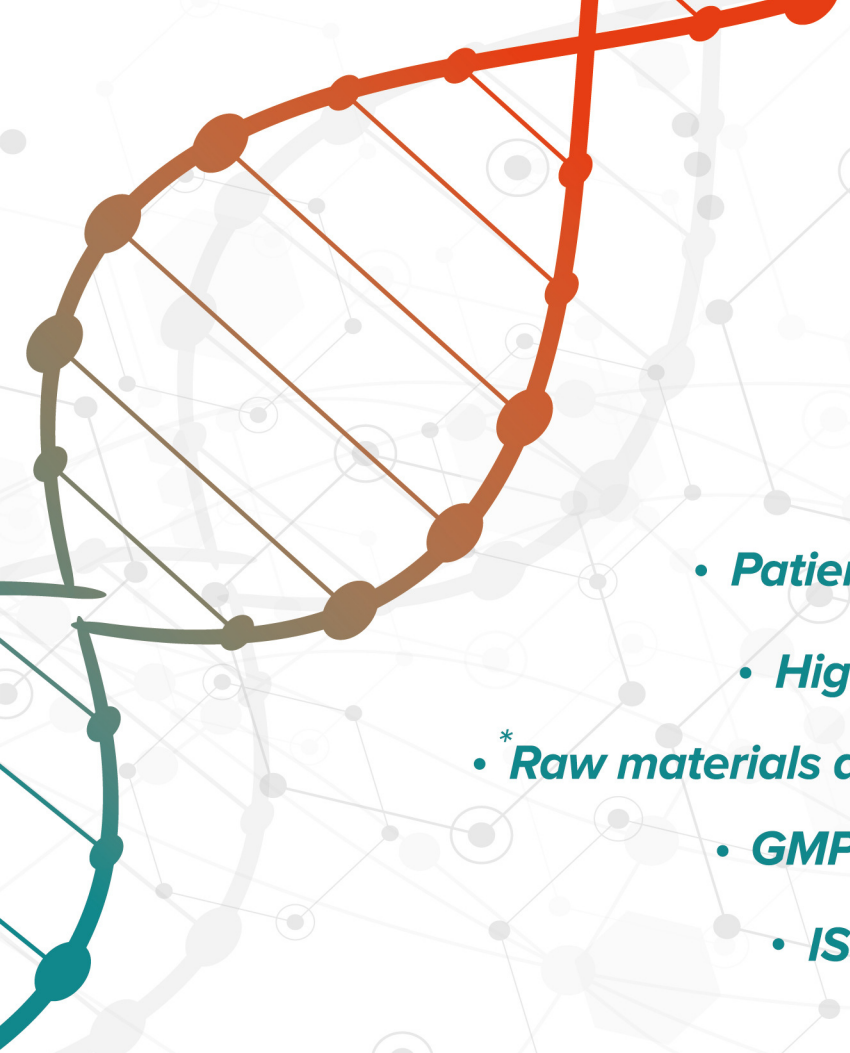
Pi FARMA
Pharmaceutical innovation

Pi FARMA
Pharmaceutical innovation

*Raw materials and excipients conforming to EP

The European Pharmacopoeia was developed by the European Directorate for the Quality of Medicines (EDQM) and is part of the Council of Europe. The 10th Edition entered into force as of January 1, 2020. Raw materials and excipients are qualified according to the published EP, and raw materials and excipients conforming to EP 10 are used in Pi FARMA products.





- *Patient-centered approach*
- *High quality standards*
- *Raw materials and excipients conforming to EP*
- *GMP (Good Manufacturing Practices)*
- *ISO 9001 certificate*

PRODUCTION

Pi FARMA, which has 2 production facilities in 2 separate locations Ankara and Konya, with an indoor area of 9.882 m^2 built on a total of 24.082 m^2 of land manufactures its products in accordance with modern European Standards using high quality experience, creating indispensable pharmaceutical brands with the goal of being the first choice. Pi FARMA, which continues its production in EU GMP approved facilities, has an annual production capacity of 11.5 million boxes of medicines.

Pi FARMA Production Facility

Having a production area of 3.800 m^2, established on a land of 18.000 m^2, Pi FARMA is one of the few GMP certified production facilities in Turkey with its advanced production line and production technology. It has an annual production capacity of approximately 3 million boxes. Production lines include Sterile Non-Beta-Lactam and Complementary Feed lines.

FDN İlaç Production Facility

FDN Pharmaceuticals, which has a production area of 6.082 m^2, is one of the few production facilities in Turkey with GMP certification, with its advanced production line and production technology. It has an annual production capacity of approximately 8.5 million boxes. Production lines include Beta-Lactam, Non-Beta-Lactam and hormone lines.

CONTENTS

ANTIBACTERIALS

HORMONES

PARASITICIDES

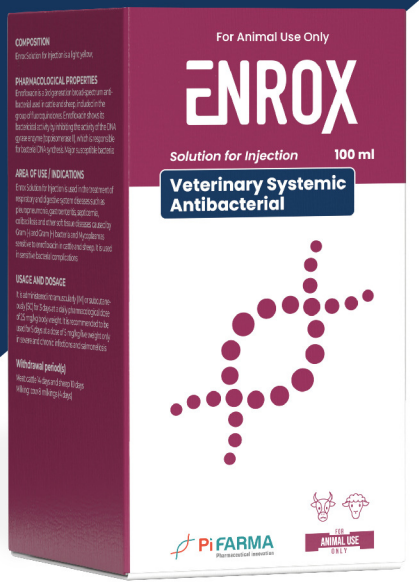
ANTI-INFLAMMATORY

VITAMINS

GENERAL INFORMATION

ANTIBACTERIALS

Pi FARMA
Pharmaceutical innovation



Vial Sizes: 50-100-250 ml

ENROX

Solution for Injection | Veterinary Systemic Antibacterial

COMPOSITION

COMPOSITION Enrox Solution for Injection, each ml of contains 100 mg Enrofloxacin.

PHARMACOLOGICAL PROPERTIES

Enrofloxacin is a 3rd generation broad-spectrum antibacterial used in cattle and sheep, included in the group of fluoroquinolones. Enrofloxacin shows its bactericidal activity by inhibiting the activity of the DNA gyrase enzyme (topoisomerase II), which is responsible for bacterial DNA synthesis.

Enrofloxacin is rapidly absorbed from the injection site in all animal species and diffuses into body tissues and fluids within 30 minutes to 1-2 hours. The highest concentration occurs in the liver. Its bioavailability is 80%, and its plasma protein binding rate is less than 30%.

AREA OF USE/INDICATIONS

Enrox Solution for Injection is used in the treatment of respiratory and digestive system diseases such as pleuropneumonia, gastroenteritis, septicemia, colibacillosis and other soft tissue diseases caused by Gram (-) and Gram (+) bacteria and Mycoplasma sensitive to enrofloxacin in cattle and sheep. It is used in sensitive bacterial complications.

USAGE AND DOSAGE

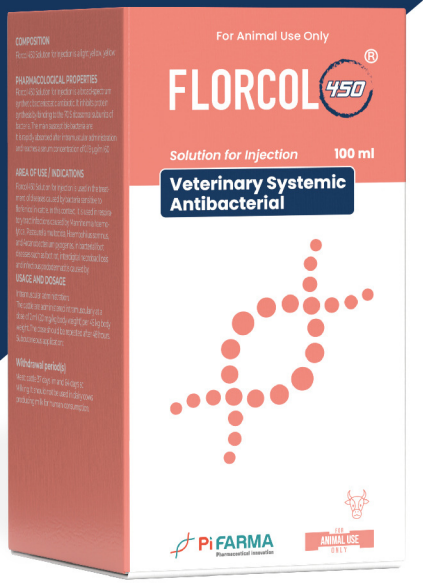
It is administered intramuscularly (I.M.) or subcutaneously (S.C.) for 3 days at a daily pharmacological dose of 2.5 mg/kg body weight. It is recommended to be used for 5 days at a dose of 5 mg/kg/body weight only in severe and chronic infections and salmonellosis.

Animal Type	Body Weight	2.5 mg/kg	5 mg/kg
Lamb	20 kg	0.5 ml	1 ml
Sheep	40 kg	1 ml	2 ml
Calf	100 kg	2.5 ml	5 ml
Calf-Heifer	200 kg	5 ml	10 ml
Cattle	400 kg	10 ml	20 ml

WITHDRAWAL PERIOD(S)

Meat: Cattle 14 days and sheep 10 days
Milk: Cow 8 milkings (4 days)

Read the package insert before use.



Vial Sizes: 50-100-250 ml

FLORCOL 450®

Solution for Injection | Veterinary Systemic Antibacterial

COMPOSITION Florcol 450 Solution for Injection each ml of contains 450 mg Florfenicol.

PHARMACOLOGICAL PROPERTIES

Florcol 450 Solution for Injection is a broad-spectrum synthetic bacteriostatic antibiotic. It inhibits protein synthesis by binding to the 70 S ribosomal subunits of bacteria. The main susceptible bacteria are:
It is rapidly absorbed after intramuscular administration and reaches a serum concentration of 0.19 µg/ml 60 hours after administration. The protein binding rate varies between 12.7-18.3%.

AREA OF USE/INDICATIONS

Florcol 450 Solution for Injection is used in the treatment of diseases caused by bacteria sensitive to florfenicol in cattle. In this context, it is used in respiratory tract infections caused by Mannheimia haemolytica, Pasteurella multocida, Haemophilus somnus, and Arcanobacterium pyogenes, in bacterial foot diseases such as foot rot, interdigital necrobacillosis and infectious pododermatitis caused by Fusobacterium necrophorum, Bacteroides meleninogenicus and Dichelobacter nodosus and in the treatment of infectious keratoconjunctivitis caused by Moraxella bovis.

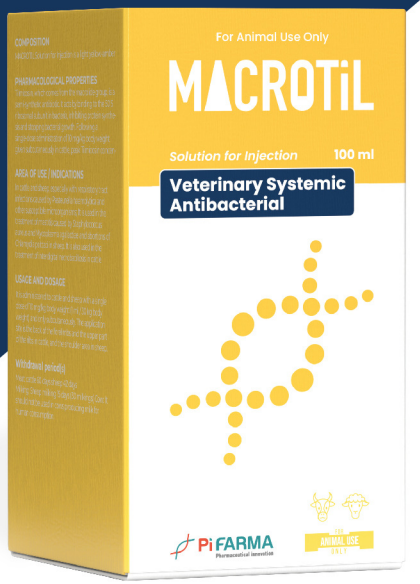
USAGE AND DOSAGE

Intramuscular administration:
It is administered intramuscularly to cattle at a dose of 2 ml (20 mg/kg body weight) per 45 kg body weight. The dose should be repeated after 48 hours.
Subcutaneous administration:
It is administered subcutaneously to cattle at a dose of 4 ml (40 mg/kg body weight) per 45 kg body weight. A single dose is sufficient for subcutaneous administration.

WITHDRAWAL PERIOD(S)

Meat: Cattle 37 days (I.M.) and 64 days (S.C.)
Milk: It should not be used in dairy cows producing milk for human consumption.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

MACROTiL

Solution for Injection | Veterinary Systemic Antibacterial

COMPOSITION Macrotil Solution for Injection each ml of contains 300 mg Tilmicosin.

PHARMACOLOGICAL PROPERTIES

Tilmicosin, which comes from the macrolide group, is a semi-synthetic antibiotic. It acts by binding to the 50 S ribosomal subunit in bacteria, inhibiting protein synthesis and stopping bacterial growth. Following a single-dose administration of 10 mg/kg body weight given subcutaneously in cattle, peak Tilmicosin concentration is achieved in the plasma within 1 hour and levels of 0.07 µg/ml are maintained in the plasma for 3 days.

Tilmicosin reaches a concentration in the lungs of approximately 60 times the serum level, and this concentration persists for more than 3 days. This feature makes it preferred in the treatment of respiratory system infections.

AREA OF USE/INDICATIONS

In cattle and sheep, especially with respiratory tract infections caused by Pasteurella haemolytica and other susceptible microorganisms; It is used in the treatment of mastitis caused by Staphylococcus aureus and Mycoplasma agalactiae and abortions of Chlamydia psittaci in sheep. It is also used in the treatment of interdigital necrobacillosis in cattle.

USAGE AND DOSAGE

It is administered to cattle and sheep with a single dose of 10 mg/kg body weight (1 ml / 30 kg body weight) and only subcutaneously. The application site is the back of the forelimbs and the upper part of the ribs in cattle, and the shoulder area in sheep.

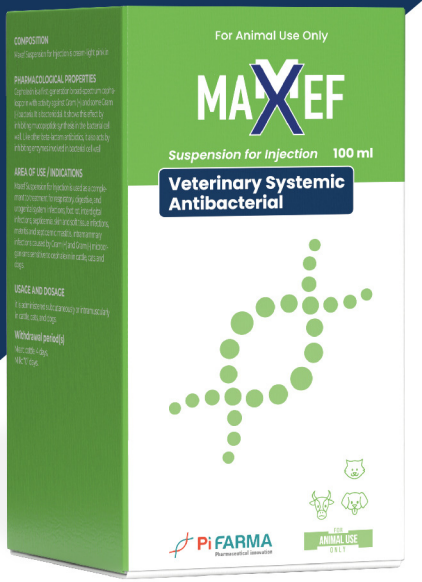
It should not be used in cows producing milk for human consumption. It is not recommended to be applied to sheep producing milk for human consumption due to the long wash-out period in milk.

WITHDRAWAL PERIOD(S)

Meat: Cattle 60 days sheep 42 days

Milk: Sheep milking 15 days (30 milkings) Cow: It should not be used in cows producing milk for human consumption.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

MAXEF

Suspension for Injection | Veterinary Systemic Antibacterial

COMPOSITION Maxef Suspension for Injection each ml of contains 180 mg Cephalexin.

PHARMACOLOGICAL PROPERTIES

Cephalexin is a first-generation broad-spectrum cephalosporin with activity against Gram (+) and some Gram (-) bacteria. It is bactericidal. It shows this effect by inhibiting mucopeptide synthesis in the bacterial cell wall. Like other beta-lactam antibiotics, it also acts by inhibiting enzymes involved in bacterial cell wall syntheses, such as carboxypeptidase, transpeptidase, and endopeptidase in the bacterial cytoplasm.

AREA OF USE/INDICATIONS

Maxef Suspension for Injection is used as a complement to treatment for respiratory, digestive, and urogenital system infections, foot rot, interdigital infections, septicemia, skin and soft tissue infections, metritis and septicemic mastitis, intramammary infections caused by Gram (+) and Gram (-) microorganisms sensitive to cephalexin in cattle, cats and dogs.

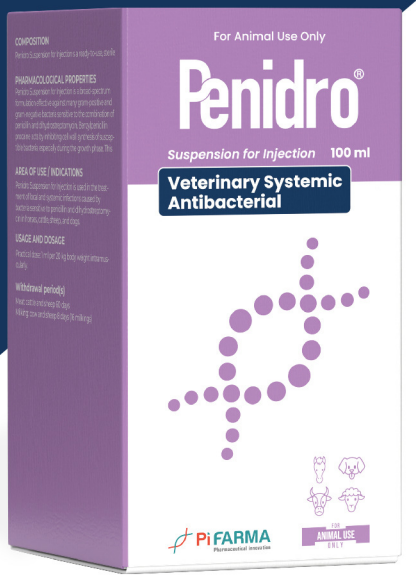
USAGE AND DOSAGE

It is administered subcutaneously or intramuscularly in cattle, cats, and dogs.
Pharmacological dose:
For Cattle: 7 mg / kg body weight / day,
For Cats - Dogs: 10 mg / kg body weight / day.
Practical dose:
For Cattle: 1 ml / 25 kg body weight
For Cats and Dogs: 0.25 ml / 4.5 kg body weight.
One application is made per day and the application is continued for 5 days.

WITHDRAWAL PERIOD(S)

Meat: Cattle 4 days,
Milk: “0” days.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

Penidro®

Suspension for Injection | Veterinary Systemic Antibacterial

COMPOSITION
Penidro Suspension for Injection each ml of contains 200.000 IU Benzylpenicillin Procaine and 200 mg Dihydrostreptomycin sulfate.

PHARMACOLOGICAL PROPERTIES
Penidro Suspension for Injection is a broad-spectrum formulation effective against many gram-positive and gram-negative bacteria sensitive to the combination of penicillin and dihydrostreptomycin. Benzylpenicillin procaine acts by inhibiting cell wall synthesis of susceptible bacteria, especially during the growth phase. This also allows higher levels of streptomycin to enter the bacteria. Thus, dihydrostreptomycin, which passes to bacteria at higher concentrations, acts by disrupting protein synthesis.

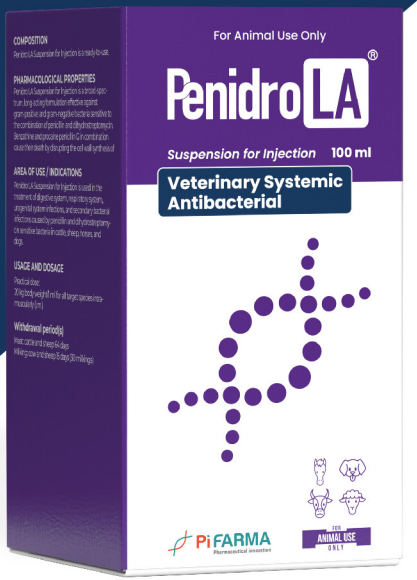
AREA OF USE/INDICATIONS
Penidro Suspension for Injection is used in the treatment of local and systemic infections caused by bacteria sensitive to penicillin and dihydrostreptomycin in horses, cattle, sheep, and dogs.

USAGE AND DOSAGE
Practical dose: 1 ml per 20 kg body weight intramuscularly.
Depending on the clinical course, the treatment can be repeated once a day for 3-5 days.

Animal Type	Body Weight (kg)	Recommended Daily Dose (ml)
Cattle-Horse	400	20 ml
Calf-Heifer	200	10 ml
Calf-Foal	100	5 ml
Sheep	60	3 ml
Dog	5	0.25 ml

WITHDRAWAL PERIOD(S)
Meat: Cattle and sheep 60 days
Milk: Cow and sheep 8 days (16 milkings)

Read the package insert before use.



Vial Sizes: 50-100-250 ml

PenidroLA®

Suspension for Injection | Veterinary Systemic Antibacterial

COMPOSITION

Penidro LA Suspension for Injection each ml of contains 100.000 IU Procaine Penicillin G, 100.000 IU Benzathine Penicillin G and 200 mg Dihydrostreptomycin.

PHARMACOLOGICAL PROPERTIES

Penidro LA Suspension for Injection is a broad-spectrum, long-acting formulation effective against gram-positive and gram-negative bacteria sensitive to the combination of penicillin and dihydrostreptomycin. Benzathine and procaine penicillin G in combination cause their death by disrupting the cell wall synthesis of susceptible bacteria, especially during the growth period. This also allows streptomycin to enter the bacteria at higher concentrations.

AREA OF USE/INDICATIONS

Penidro LA Suspension for Injection is used in the treatment of digestive system, respiratory system, urogenital system infections, and secondary bacterial infections caused by penicillin and dihydrostreptomycin sensitive bacteria in cattle, sheep, horses, and dogs.

USAGE AND DOSAGE

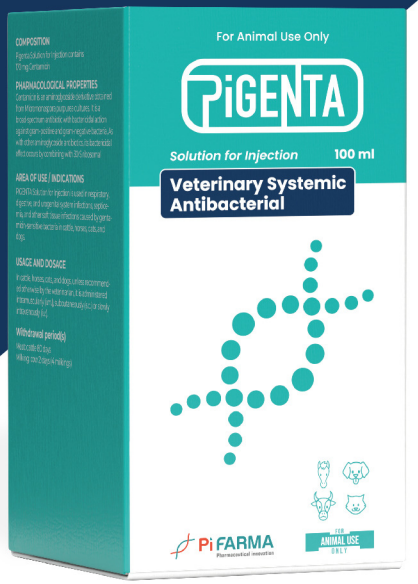
Practical dose:
1 ml / 20 kg body weight for all target species intramuscularly (I.M.)

Animal Type	Body Weight (kg)	Dose (ml)
Cattle-Horse	400	20
Calf-Heifer	200	10
Calf-Foal	100	5
Sheep	40	2
Dog	10	0.5

WITHDRAWAL PERIOD(S)

Meat: Cattle and sheep 64 days
Milk: Cow and sheep 15 days (30 milkings)

Read the package insert before use.



Vial Sizes: 50-100-250 ml

PiGENTA

Solution for Injection | Veterinary Systemic Antibacterial

COMPOSITION Pigenta Solution for Injection each ml of contains 100 mg Gentamicin.

PHARMACOLOGICAL PROPERTIES

Gentamicin is an aminoglycoside derivative obtained from Micromonospora purpurea cultures. It is a broad-spectrum antibiotic with bactericidal action against gram-positive and gram-negative bacteria. As with other aminoglycoside antibiotics, its bactericidal effect occurs by combining with 30 S ribosomal subunits in bacteria, preventing mRNA from joining them and causing misreading of codons on RNA.

AREA OF USE/INDICATIONS

Pigenta Solution for Injection is used in respiratory, digestive, and urogenital system infections, septicemia, and other soft tissue infections caused by gentamicin-sensitive bacteria in cattle, horses, cats, and dogs.

USAGE AND DOSAGE

In cattle, horses, cats, and dogs, it is administered intramuscularly (I.M.), subcutaneously (S.C.) or slowly intravenously (I.V.).

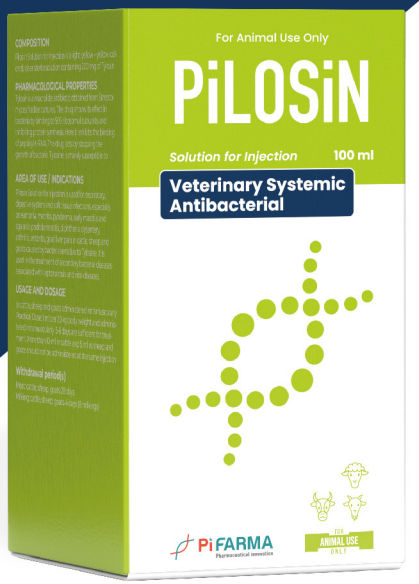
Animal Type	Practical Dose
Cattle - Horse	4 ml / 100 kg body weight / day
Calf - Heifer	2 ml / 50 kg body weight / day
Calf - Foal	1 ml / 25 kg body weight / day
Cat - Dog	0.2 ml / 5 kg body weight / day

It is administered by dividing the dose into two on the first day of treatment, then once a day for 3-5 days in cattle and horses, and 5-7 days in dogs and cats.

WITHDRAWAL PERIOD(S)

Meat: Cattle 80 days
Milk: Cow 2 days (4 milkings)

Read the package insert before use.



Vial Sizes: 50-100-250 ml

PiLOSiN

Solution for Injection | Veterinary Systemic Antibacterial

COMPOSITION Pilosin Solution for Injection each ml of contains 200 mg Tylosin.

PHARMACOLOGICAL PROPERTIES

Tylosin is a macrolide antibiotic obtained from Streptomyces fradiae cultures. The drug shows its effect in bacteria by binding to 50S ribosomal subunits and inhibiting protein synthesis. Here it inhibits the binding of peptidyl-t-RNA. The drug acts by stopping the growth of bacteria. Tylosin is mainly susceptible to gram-positive bacteria. The MIC of the drug in susceptible bacteria ranges between 0.1-0.5 µg/ml. Tylosin is mainly susceptible to gram-positive bacteria.

AREA OF USE/INDICATIONS

Pilosin Solution for Injection is used for respiratory, digestive system and soft tissue infections, especially pneumonia, metritis, pyoderma, early mastitis and agalaxia, pododermatitis, diphtheria, dysentery, arthritis, enteritis, goat liver pain in cattle, sheep and goats caused by bacteria sensitive to Tylosin. It is used in the treatment of secondary bacterial diseases associated with leptospirosis and viral diseases.

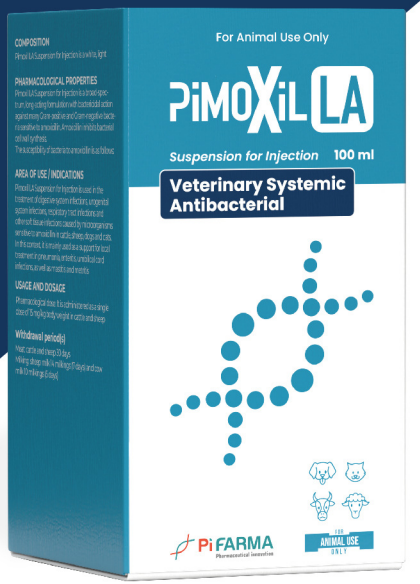
USAGE AND DOSAGE

In cattle, sheep and goats administered intramuscularly
Practical dose: 1 ml per 20 kg body weight and administered intramuscularly.
5-6 days are sufficient for treatment.

WITHDRAWAL PERIOD(S)

Meat: Cattle, sheep, goats 28 days
Milk: Cow, sheep, goats 4 days (8 milkings)

Read the package insert before use.



Vial Sizes: 50-100-250 ml

PiMOXiL LA

Suspension for Injection | Veterinary Systemic Antibacterial

COMPOSITION

COMPOSITION Pimoxil LA Suspension for Injection each ml of contains 150 mg Amoxicillin.

PHARMACOLOGICAL PROPERTIES

Pimoxil LA Suspension for Injection is a broad-spectrum, long-acting formulation with bactericidal action against many Gram-positive and Gram-negative bacteria sensitive to amoxicillin. Amoxicillin inhibits bacterial cell wall synthesis.
It is absorbed very rapidly after parenteral administration and reaches a peak level in blood serum 1-2 hours later

AREA OF USE/INDICATIONS

Pimoxil LA Suspension for Injection is used in the treatment of digestive system infections, urogenital system infections, respiratory tract infections and other soft tissue infections caused by microorganisms sensitive to amoxicillin in cattle, sheep, dogs and cats. In this context, it is mainly used as a support for local treatment in pneumonia, enteritis, umbilical cord infections, as well as mastitis and metritis.

USAGE AND DOSAGE

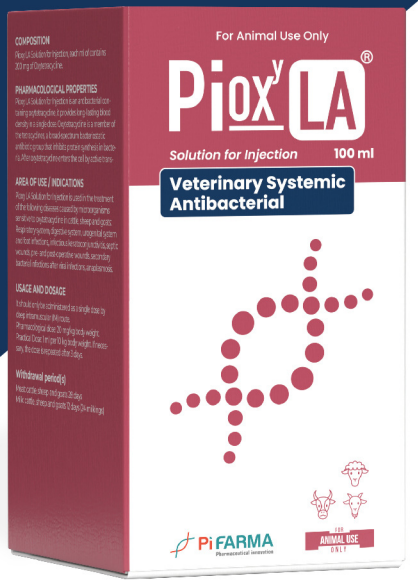
Pharmacological dose: It is administered as a single dose of 15 mg/kg body weight in cattle and sheep only intramuscularly, in dogs and cats subcutaneously and intramuscularly.
Practical dose: It is administered intramuscularly at a dose of 1 ml/10 kg body weight.
Dose chart
If necessary, the dose can be repeated after 48 hours.

Cattle	(for 400 kg of body weight)	40 ml
Calf-Heifer	(for 200 kg of body weight)	20 ml
Calf	(for 100 kg of body weight)	10 ml
Sheep	(for 50 kg of body weight)	5 ml
Lamb	(for 10 kg of body weight)	1 ml
Dog	(for 20 kg of body weight)	2 ml
Cat	(for 5 kg of body weight)	0.5 ml

WITHDRAWAL PERIOD(S)

Meat: Cattle and sheep 30 days
Milk: Sheep milk 14 milkings (7 days) and cow milk 10 milkings (5 days)

Read the package insert before use.



Vial Sizes: 50-100-250 ml

Pioxy LA®

Solution for Injection | Veterinary Systemic Antibacterial

COMPOSITION
Pioxy LA Solution for Injection, each ml of contains 200 mg of Oxytetracycline.

PHARMACOLOGICAL PROPERTIES
Pioxy LA Solution for Injection is an antibacterial containing oxytetracycline, it provides long-lasting blood density in a single dose. Oxytetracycline is a member of the tetracyclines, a broad-spectrum bacteriostatic antibiotic group that inhibits protein synthesis in bacteria. After oxytetracycline enters the cell by active transport and some passive diffusion, it binds reversibly to the receptors on the 30S subunit of the bacterial ribosome and prevents the binding of aminoacyl-transfer RNA to the ribosome complex.

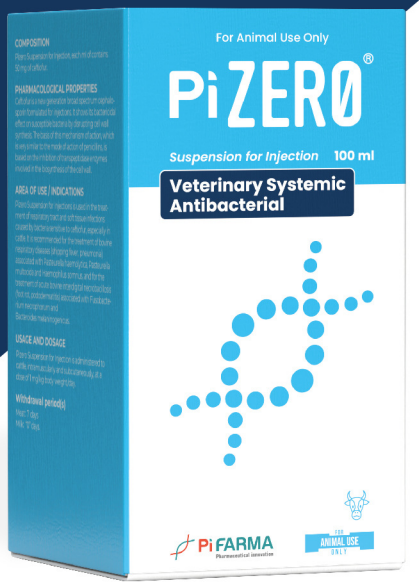
When administered intramuscularly in a single recommended dose, it is rapidly and highly absorbed from the application site and distributed to tissues. The level of oxytetracycline in the blood peaks at the end of the 4th hour and remains at this level until approximately 8 hours after administration. The concentration then decreases slowly but maintains therapeutic concentrations for 84-96 hours. Circulating oxytetracycline is 20-40% bound to plasma proteins and is well distributed to all body parts. The remainder of the drug forms a depot at the injection site, where the drug is slowly absorbed and distributed throughout the body, providing an effect that lasts for 3-4 days.

AREA OF USE/INDICATIONS
Pioxy LA Solution for Injection is used in the treatment of the following diseases caused by microorganisms sensitive to oxytetracycline in cattle, sheep and goats: Respiratory system, digestive system, urogenital system and foot infections, infectious keratoconjunctivitis, septic wounds, pre- and post-operative wounds, secondary bacterial infections after viral infections, anaplasmosis.

USAGE AND DOSAGE
It should only be administered as a single dose by deep intramuscular (I.M.) route.
Pharmacological dose: 20 mg/kg body weight.
Practical dose: 1 ml per 10 kg body weight. If necessary, the dose is repeated after 3 days.

WITHDRAWAL PERIOD(S)
Meat: Cattle, sheep and goats 28 days
Milk: Cow, sheep and goats 12 days (24 milkings)

Read the package insert before use.



Vial Sizes: 50-100-250 ml

PiZERO®

Suspension for Injection | Veterinary Systemic Antibacterial

COMPOSITION

Pizero Suspension for Injection, each ml of contains 50 mg Ceftiofur.

PHARMACOLOGICAL PROPERTIES

Ceftiofur is a new generation broad spectrum cephalosporin formulated for injections. It shows its bactericidal effect on susceptible bacteria by disrupting cell wall synthesis. The basis of this mechanism of action, which is very similar to the mode of action of penicillins, is based on the inhibition of transpeptidase enzymes involved in the biosynthesis of the cell wall.

Ceftiofur is mainly used as an intramuscular and subcutaneous injection. Absorbed ceftiofur is rapidly and completely absorbed from the blood, reaching its highest level in 0.5-1 hour. The biological half-life of Ceftiofur in cattle was found to be around 2.5 hours.

AREA OF USE/INDICATIONS

Pizero Suspension for Injections is used in the treatment of respiratory tract and soft tissue infections caused by bacteria sensitive to ceftiofur, especially in cattle. It is recommended for the treatment of bovine respiratory diseases (shipping fever, pneumonia) associated with Pasteurella haemolytica, Pasteurella multocida and Haemophilus somnus, and for the treatment of acute bovine interdigital necrobacillosis (foot rot, pododermatitis) associated with Fusobacterium necrophorum and Bacteroides melaninogenicus.

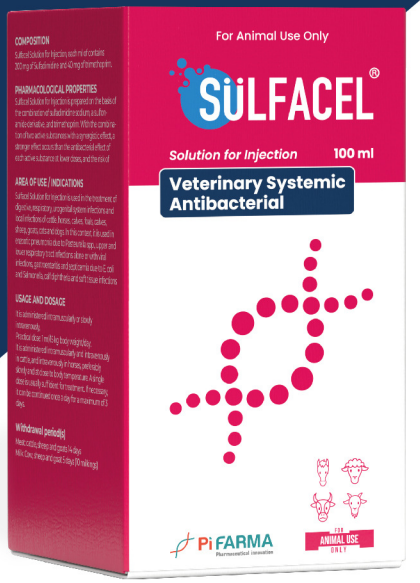
USAGE AND DOSAGE

Pizero Suspension for Injection is administered to cattle, intramuscularly and subcutaneously, at a dose of 1 mg/kg body weight/day.
Practical dose: 1 ml/50 kg body weight/day.
The frequency of recurrence is once every 24 hours. The duration of treatment is 3 days, in cases where no results are obtained, the treatment can be continued for 2 more days.

WITHDRAWAL PERIOD(S)

Meat: 7 days
Milk: “0” days.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

SÜLFACEL®

Solution for Injection | Veterinary Systemic Antibacterial

COMPOSITION

Sulfacel Solution for Injection, each ml of contains 200 mg Sulfadimidine and 40 mg Trimethoprim.

PHARMACOLOGICAL PROPERTIES

Sulfacel Solution for Injection is prepared on the basis of the combination of sulfadimidine sodium, a sulfonamide derivative, and trimethoprim. With the combination of two active substances with a synergistic effect, a stronger effect occurs than the antibacterial effect of each active substance at lower doses, and the risk of developing resistance of bacteria is reduced.

Sulfadimidine sodium is rapidly and well absorbed after parenteral administration. After parenteral administration of sulfadimidine sodium and trimethoprim, peak plasma concentration is reached in approximately 4 hours. After intravenous administration of sulfadimidine sodium, it reaches a plasma concentration of 5 mg/100 ml for 24 hours. Sulfadimidine sodium and trimethoprim are bound to plasma proteins. Excretion from the body is mostly in the urine.

AREA OF USE/INDICATIONS

Sulfacel Solution for Injection is used in the treatment of digestive, respiratory, urogenital system infections and local infections of cattle, horses, calves, foals, calves, sheep, goats, cats and dogs. In this context, it is used in enzootic pneumonia due to Pasteurella spp., upper and lower respiratory tract infections alone or with viral infections, gastroenteritis and septicemia due to E. coli and Salmonella, calf diphtheria and soft tissue infections.

USAGE AND DOSAGE

It is administered intramuscularly or slowly intravenously,

Practical dose: 1 ml/15 kg body weight/day.

Animal Type	Body Weight (kg)	Dose (ml)	Route of Administration
Horse	450-600	30-40	Intravenously (I.V.)
Foal	50-150	4-10	Intravenously (I.V.)
Cattle	450-600	30-40	Intramuscular (I.M.), Intravenously (I.V.)
Calf	50-150	4-10	Intramuscular (I.M.), Intravenously (I.V.)
Calf	30-45	2-3	Intramuscular (I.M.)
Sheep-Goat	45-60	3-4	Intramuscular (I.M.)
Lamb-Kid	7.5-15	0.5-1	Intramuscular (I.M.)
Dog	5-30	0.3-2	Intramuscular (I.M.)
Cat	1.5-7.5	0.1-0.5	Intramuscular (I.M.)

It is administered intramuscularly and intravenously in cattle, and intravenously in horses, preferably slowly and at close to body temperature. A single dose is usually sufficient for treatment. If necessary, it can be continued once a day for a maximum of days.

WITHDRAWAL PERIOD(S)

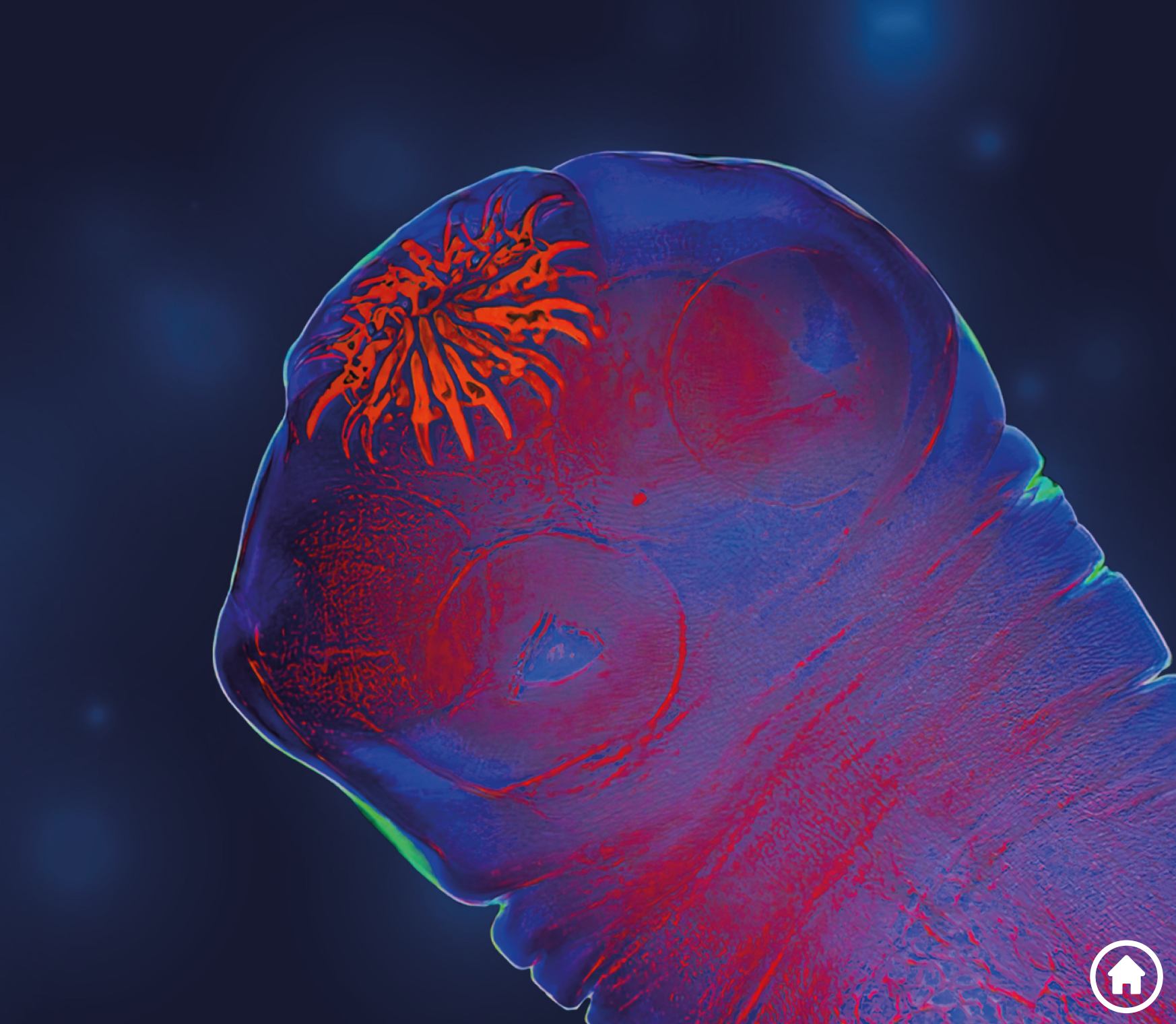
Meat: Cattle, sheep and goats 14 days

Milk: Cow, sheep and goat 5 days (10 milkings)

Read the package insert before use.

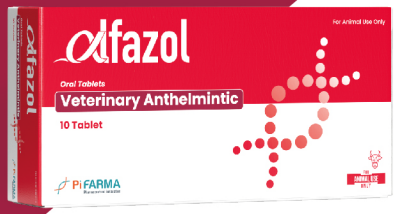
PARASITICIDES

PiFARMA
Pharmaceutical innovation



Alfazol

Oral Tablets | Veterinary Anthelmintic



Vial Sizes: 10 tabs

COMPOSITION Each tablet of contains 1200 mg Albendazole.

PHARMACOLOGICAL PROPERTIES

Albendazole is a broad-spectrum anthelmintic belonging to the benzimidazole carbamate chemical group. It acts by inhibiting the effectiveness of Fumarate Reductase, which is in the glucose metabolism of the parasites, and by disrupting the energy metabolism of the parasites. At the end of this degradation, the use of glycogen increases and the parasite dies.
Albendazole reaches peak plasma concentration in cattle 6 hours after administration.

AREA OF USE/INDICATIONS

Alfazol Oral Tablet is used for the treatment and protection of adults, larvae and eggs of cattle gastrointestinal, lung pinworms, adults and eggs of liver flukes, adult and young forms of stripes and infestations.

Effective against following parasites

CATTLE:

Stomach - intestinal pinworms; Trichostrongylus sp., Oesophagostomum sp., Haemonchus sp., Cooperia sp., Ostertagia sp., Bunostomum sp., Chabertia sp., Gaigeria pachyscelis, Nematodirus sp., Strongyloides sp., Trichuris sp.
Lung worms; Dictyocaulus viviparus.
Liver butterflies; Fasciola hepatica, F. gigantica, Dicrocoelium dentriticum.
Tapeworms; Moniezia sp.

USAGE AND DOSAGE

Tablets are administered by swallowing orally at one time.

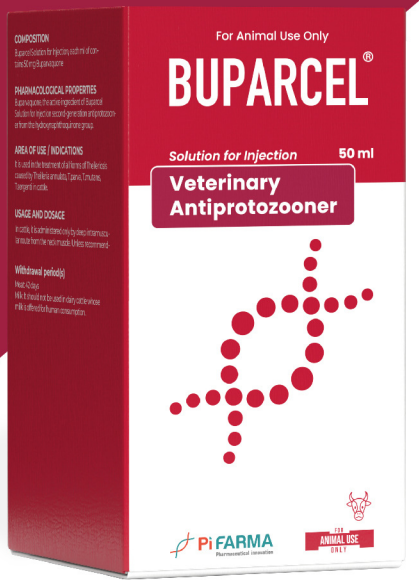
Practical Doses

Body Weight (kg)	Gastrointestinal, Lung Pinworms	Tapeworms	Liver Butterflies	Dicrocoelium Dendriticum
80	½	1	1	1 ½
160	1	1 ½	2	3
240	1 ½	2	3	4
320	2	2 ½	4	5 ½
400	2 ½	3 ½	5	7

WITHDRAWAL PERIOD(S)

Meat: 14 days
Milk: 3 days (6 milkings).

Read the package insert before use.



Vial Sizes: 20-50 ml

BUPARCEL®

Solution for Injection | Veterinary Antiprotozooner

COMPOSITION Buparcel Solution for Injection, each ml of contains 50 mg Buparvaquone.

PHARMACOLOGICAL PROPERTIES

Buparvaquone, the active ingredient of Buparcel Solution for Injection second-generation antiprotozooner from the hydroxynaphthoquinone group.
The tertiary-butyl bond in the composition of Buparcel Solution for Injection provides a long plasma half-life and the cyclohexyl ring in the 4-position ensures slow metabolism. Buparvaquone is effective on schizont and pyroplasma forms in cattle. This activity is parasite-specific. It does not develop adverse effects on host lymphocytes. When buparvaquone is administered intramuscularly at a dose of 2.5 mg/kg, the maximum plasma concentration is 1.102 µg/kg, the time to peak plasma concentration is 3.27 hours, and the elimination half-life is 26.44 hours, and the volume of distribution is 35.381/kg. It is generally excreted in the stool after entero-hepatic circulation.

AREA OF USE/INDICATIONS

It is used in the treatment of all forms of Theileriosis caused by Theileria annulata, T. parva, T. mutans, T. sergenti in cattle.

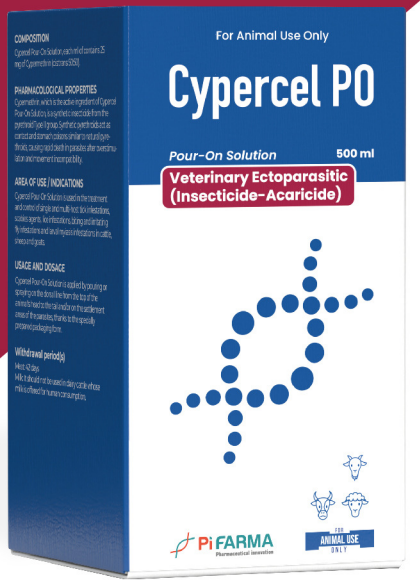
USAGE AND DOSAGE

In cattle, it is administered only by deep intramuscular route from the neck muscle.
Unless recommended otherwise by the Veterinarian,
Practical dose: 1 ml is applied per 20 kg body weight.
A single dose is usually sufficient. In severe cases, a second dose may be required 48–72 hours after the first administration.

WITHDRAWAL PERIOD(S)

Meat: 42 days
Milk: It should not be used in dairy cows producing milk for human consumption.

Read the package insert before use.



Vial Sizes: 500 ml

Cypercel PO

Pour-On Solution | Veterinary Ectoparasitic (Insecticide-Acaricide)

COMPOSITION Cypercel Pour-On Solution, each ml of contains 25 mg Cypermethrin (cis:trans 50:50).

PHARMACOLOGICAL PROPERTIES

Cypermethrin, which is the active ingredient of Cypercel Pour-On Solution, is a synthetic insecticide from the pyrethroid Type II group. Synthetic pyrethroids act as contact and stomach poisons similar to natural pyrethroids, causing rapid death in parasites after overstimulation and movement incompatibility. They do not produce a systemic effect. Pyrethroid group insecticides are lipophilic. Thus, they easily pass through the cuticle rich in lipoid molecules of parasitic insects and reach their point of action.

AREA OF USE/INDICATIONS

Cypercel Pour-On Solution is used in the treatment and control of single and multi-host tick infestations, scabies agents, lice infestations, biting and irritating fly infestations and larval myiasis infestations in cattle, sheep and goats.

USAGE AND DOSAGE

Cypercel Pour-On Solution is applied by pouring or spraying on the dorsal line from the top of the animal's head to the tail and/or on the settlement areas of the parasites.

Practical Dose Chart:

In cattle

Body Weight	Cypercel PO
5 kg bw	1 ml
25 kg bw	5 ml
50 kg bw	10 ml

In sheep and goats

Since sheep and goats have longer wool, a dose of 5 mg Cypermethrin/kg body weight is taken into account, taking into account the inevitable loss of medicine.

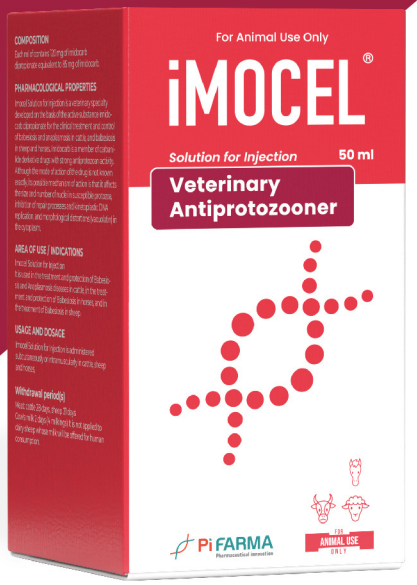
Body Weight	Cypercel PO
Up to 100 kg bw	10 ml
between 100-200 kg bw	20 ml
over 300 kg bw	30 ml

It is sufficient to apply the amount of drug to be used for fly and lice control in all animal species along the ridgeline. The drug applied once, protects animals against reinfestations for 2-6 weeks,

WITHDRAWAL PERIOD(S)

Meat: Cattle, sheep, and goats 14 days.
Milk: 15 days (30 milkings) in dairy cows, 10 days (20 milkings) in sheep and goats

Read the package insert before use.



Vial Sizes: 20-50 ml

iMOCEL®

Solution for Injection | Veterinary Antiprotozooner

COMPOSITION Imocel solution for injection, each ml of contains 85 mg Imidocarb.

PHARMACOLOGICAL PROPERTIES

Imocel Solution for Injection is a veterinary specialty developed on the basis of the active substance imidocarb dipropionate for the clinical treatment and control of babesiosis and anaplasmosis in cattle, and babesiosis in sheep and horses. Imidocarb is a member of carbanilide derivative drugs with strong antiprotozoan activity. Although the mode of action of the drug is not known exactly, its possible mechanism of action is that it affects the size and number of nuclei in susceptible protozoa, inhibition of repair processes and kinetoplastic DNA replication, and morphological distortions (vacuolatin) in the cytoplasm.

AREA OF USE/INDICATIONS

Imocel Solution for Injection is used in the treatment and protection of Babesiosis and Anaplasmosis diseases **in cattle,** in the treatment and protection of Babesiosis **in horses,** and in the treatment of Babesiosis **in sheep.**

Main protozoan species that it is effective in target animal species: Babesia bovis, B. bigemina and Anaplasma marginale **in cattle;** Babesia caballi and B. equi **in horses,** B. ovis **in sheep.**

USAGE AND DOSAGE

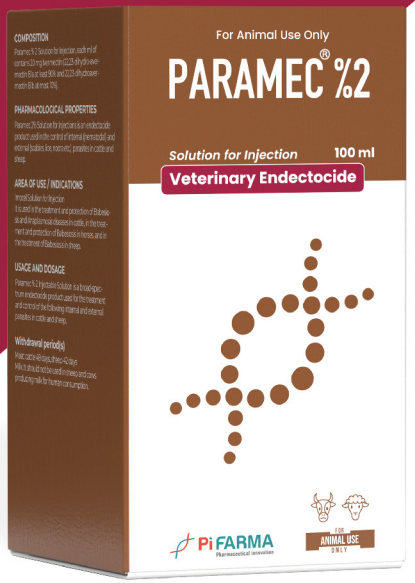
Imocel Solution for Injection is administered subcutaneously or intramuscularly in cattle, sheep and horses,

Animal types	Protozoa Type	Treatment dose and method of administration	Sterilization dose and method of application	Protection dose and method of administration
Cattle	B. bovis B. bigemina	1 ml/100 kg bw (S.C. or I.M.) (1.2 mg/kg bw)	-	2.5 ml/100 kg bw (S.C. or I.M.) (3 mg/kg ca)
	Anaplasma marginale	2.5 ml/100 kg bw (S.C. or I.M.) (3 mg/kg bw)	-	2,5 ml/100 kg bw (S.C. or I.M.) (3 mg/kg ca)
Sheep	B. bovis	0.1 ml/10 kg bw (S.C. or I.M.) (1.2 mg/kg bw)	-	-
Horse	B. equi	2 ml/100 kg bw (I.M.) 2 doses with 48 hours intervals (2.4 mg/kg bw)	4 ml/100 kg bw (I.M.) 4 doses with 72 hours intervals	2 ml/ 100 kg bw (I.M.) (2.4 mg/kg bw)
	B. caballi	2 ml/100 kg bw (I.M.) (2.4 mg/kg bw)	2 ml/ 100 kg bw (I.M.) 2 doses with 24 hour intervals	2 ml/ 100 kg bw (I.M.) (2.4 mg/kg bw)

WITHDRAWAL PERIOD(S)

Meat: Cattle 28 days, sheep 21 days
Milk: Cow 2 days (4 milkings) It is not applied to dairy sheep whose milk will be offered for human consumption.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

PARAMEC®%2

Solution for Injection | Veterinary Endectocide

COMPOSITION Paramec % 2 Solution for Injection, each ml of contains 20 mg Ivermectin (22,23-dihydro-avermectin B1a at least 90% and 22,23-dihydroavermectin B1b at most 10%).

PHARMACOLOGICAL PROPERTIES

Paramec 2% Solution for Injection is an endectocide product used in the control of internal (nematodal) and external (scabies, lice, nocra etc.) parasites in cattle and sheep. Ivermectin is an avermectin derivative and is a macrocyclic lactone group compound obtained from Streptomyces Avermitilis cultures. Ivermectin is composed of at least 90% 5-o-deme-thyl-22,23-dihydroavermectin A1a [22-23 Dihydroavermectin B1a] and up to 10% 5-o-demethyl-25-de (1-methylpropyl)-22,23-dihydro-25-(1-methylethyl) avermectin A1a [22-23 Dihydroavermectin B1b] components. The ratio of components [H2B1a/(H2B1a+H2B1b]) is a minimum of 90%. Ivermectin keeps chlorine (Cl-) channels open by increasing the secretion of Gamma Amino Butyric Acid (GABA) in the motoric ganglion synapses (nematodes) or neuromuscular endplates (arthropods) of parasites. It enables paralysis and death of the parasite by preventing the passage of motoric nerve impulse.

AREA OF USE/INDICATIONS

Paramec % 2 Solution for Injection is a broad-spectrum endectocide product used for the treatment and control of the following internal and external parasites in cattle and sheep.
In cattle; Gastrointestinal Nematodes, Lung Pinworms, Eye Nematodes, Nokra Factor Fly Larvae Scabies, Lice
In sheep; Gastrointestinal Nematodes, Lung Nematodes, Scabies, Nasal Nematodes

USAGE AND DOSAGE

Paramec %2 Solution for Injection is administered intramuscularly (I.M.) and subcutaneously (S.C.) in cattle and sheep. it should be administered as 1 ml /100 kg bw

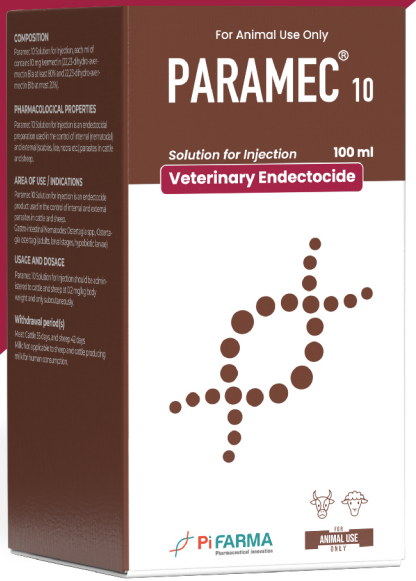
The practical dose table is given below.

SHEEP		CATTLE	
Body Weight	**Dose (ml)**	**Body Weight**	**Dose (ml)**
20 - 25	0.25	50 - 100	0.5 - 1
25 - 50	0.5	100 - 200	1 - 2
50 - 75	0.50 - 0.75	200 - 400	2 – 4

WITHDRAWAL PERIOD(S)

Meat: Cattle 49 days, sheep 42 days
Milk: It should not be used in sheep and cows producing milk for human consumption.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

PARAMEC® 10

Solution for Injection | Veterinary Endectocide

COMPOSITION
Paramec 10 Solution for Injection, each ml of contains 10 mg Ivermectin (22,23-dihydro-avermectin B1a at least 80% and 22,23-dihydro-avermectin B1b at most 20%).

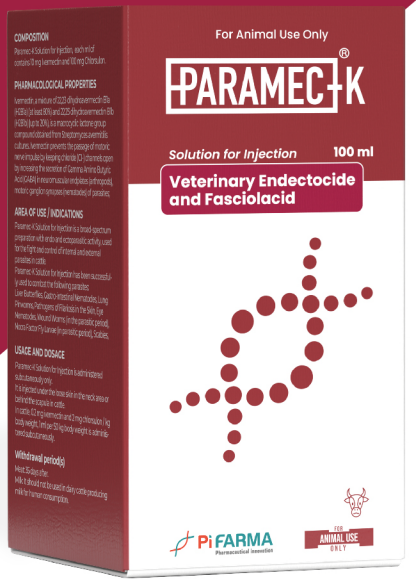
PHARMACOLOGICAL PROPERTIES
Paramec 10 Solution for Injection is an endectocidal preparation used in the control of internal (nematodal) and external (scabies, lice, nocra etc.) parasites in cattle and sheep. Ivermectin is a semi-synthetic derivative of avermectin obtained from the fermentation of Streptomyces avermitilis. It increases the secretion of GABA in the motoric ganglion synapses (nematodes) or neuromuscular endplates (Arthropods) of the parasites, keeping the chloride channels open, preventing the passage of the motoric nerve impulse and paralyzing the parasites.

AREA OF USE/INDICATIONS
Paramec 10 Solution for Injection is an endectocide product used in the control of internal and external parasites in cattle and sheep.
Gastro-intestinal Nematodes: Ostertagia spp., Ostertagia ostertagi (adults, larval stages, hypobiotic larvae) O. iyrate (adults L4 larvae), Haemonchus placei, Trichostrongylus axei, T. colubriformis, Cooperia sp, Bunostomum phlematosusbotatum adults), Strongyloides papillosus.
Lung Pinworms: Dictyocaulus viviparus
Warbles: Hypoderma bovis, Hypoderma lineatum.
Scabies pathogens: Psoroptes communis bovis, Psoroptes communis ovis, Sarcoptes scabei bovis Chorioptes bovis.
Lice: Linognathus vituli, Haematophinus eurysternus

USAGE AND DOSAGE
Paramec 10 Solution for Injection should be administered to cattle and sheep at 0.2 mg/kg body weight and only subcutaneously,
Practical Dose Chart:
Lamb (10-25 kg body weight): 0.2-0.5 ml
Sheep (25-50 kg body weight): 0.5-1 ml
Calf (for 50-100 kg body weight): 1-2 ml
Veal-Heifer (100-250 kg body weight): 2-5 ml
Cattle (250-500 kg body weight): 5-10 ml

WITHDRAWAL PERIOD(S)
Meat: Cattle 35 days, and sheep 42 days
Milk: It should not be used in sheep and cattle producing milk for human consumption.

Read the package insert before use.



Vial Sizes: 50-100 ml

PARAMEC-K®

Solution for Injection | Veterinary Endectocide and Fasciolacid

COMPOSITION

Paramec-K Solution for Injection, each ml of contains 10 mg Ivermectin and 100 mg Chlorsulon.

PHARMACOLOGICAL PROPERTIES

Ivermectin, a mixture of 22,23 dihydroavermectin B1a (H2B1a) (at least 80%) and 22,23 dihydroavermectin B1b (H2B1b) (up to 20%), is a macrocyclic lactone group compound obtained from Streptomyces avermitilis cultures. Ivermectin prevents the passage of motoric nerve impulse by keeping chloride (Cl-) channels open by increasing the secretion of Gamma Amino Butyric Acid (GABA) in neuromuscular endplates (arthropods), motoric ganglion synapses (nematodes) of parasites; thus, the parasite becomes paralyzed and dies. Chlorsulon is a sulfonamide derivative antiparasitic that is effective by inhibiting enzymes involved in energy metabolism and preventing glucose utilization in butterflies (Fasciola hepatica, F. gigantica). It is absorbed very quickly and completely in subcutaneous application. It reaches its highest concentration in plasma within 6 hours and in tissues within 24 hours. It does not undergo significant metabolic changes in the body. It is excreted from the body mainly through bile and urinary tract.

AREA OF USE/INDICATIONS

Paramec-K Solution for Injection is a broad-spectrum preparation with endo and ectoparasitic activity, used for the fight and control of internal and external parasites in cattle.
Paramec-K Solution for Injection has been successfully used to combat the following parasites: Liver Butterflies, Gastro-intestinal Nematodes, Lung Pinworms, Pathogens of Filariosis in the Skin, Eye Nematodes, Wound Worms (in the parasitic period), Nocra Factor Fly Larvae (in parasitic period), Scabies, Lice, Ticks (some single-host ticks, soft ticks)

USAGE AND DOSAGE

Paramec-K Solution for Injection is administered subcutaneously only.
It is injected under the loose skin in the neck area or behind the scapula in cattle.
In cattle, 0.2 mg ivermectin and 2 mg chlorsulon / kg body weight, 1 ml per 50 kg body weight is administered subcutaneously.

Practical dose table

CATTLE		CATTLE	
Dose (ml)	**Body Weight (kg)**	**Dose (ml)**	**Body Weight (kg)**
1.0	50	6.0	300
2.0	100	8.0	400
3.0	150	10.0	500
4.0	200	12.0	600

WITHDRAWAL PERIOD(S)

Meat: 35 days.
Milk: It should not be used in dairy cattle producing milk for human consumption.

Read the package insert before use.

Vial Sizes: 50 tabs

ŞERiTAB®

Oral Tablets | Veterinary Anthelmintic

COMPOSITION Şeritab Oral Tablet, each tablet of contains 300 mg Praziquantel.

PHARMACOLOGICAL PROPERTIES

Şeritab Oral tablet contains Praziquantel, an isoquinoline derivative anthelmintic. Praziquantel is a broad-spectrum cestocidal anthelmintic specific to tapeworms. Praziquantel impairs the membrane permeability of the tapeworm, preventing glucose uptake and depleting its energy reserves, leading to the death of the parasite. After a few seconds, severe contractions and contractions occur in the rings of the tapeworms that come into contact with praziquantel, the function of the hooks embedded in the intestine deteriorates and the scolex leaves themucosa and becomes paralyzed. After the product is administered, it is largely absorbed from the stomach and intestines and reaches the maximum serum level within 30 minutes to 4 hours.

AREA OF USE/INDICATIONS

It is used in the treatment of Taeniasis in horses and dogs, especially in sheep.
In sheep, Moniezia expansa, M. benedeni, Thysaniezia ovilla, Avitellina centripunctata, Stilesia globipunctata and S. hepatica (bile duct worms),
In horses, Anaplocephala sp. and Anaplocephaloides mamillana from the intestinal tapeworms,
In dogs, Echinococcus granulosus, E. multilocularis, Diphylidium caninum, Taenia ovis, Taenia psiformis, T. hydatigena, Multiceps multiceps, Mesocestoides sp. and T. teniformis species has a strong tennisid activity on cestodes.
Since Şeritab Oral Tablet is effective for adults, teenagers and scolexes of the tapeworms, it is suitable for total worm eradication. Şeritab Oral Tablets are used to eliminate the clinical manifestations of chronic Coenurus cerebralis in sheep.

USAGE AND DOSAGE

The Pharmacological dose of Şeritab Oral Tablet for elimination of young and adult tapeworms is 15 mg Praziquantel/kg body weight in sheep, 1 mg/kg b.w. in horses, 5-10 mg/kg b.w. in dogs. Tablets can be used by dividing them in the middle. It reduces the symptoms of the disease in chronic Coenurus cerebralis when administered at a dose of 50-100 mg/kg b.w. for 2-5 days in a row against gid (Coenurus cerebralis) and peritoneal cysticercoids (Cysticercus tenuicollise).

Practical Dose Chart:

Animal Type	Number of Tablets
Lamb (20 kg)	1
Sheep (50 kg)	2.5
Horse (almost)	2-3
Dog (less than 15 kg)	0.5
Dog (between 15-30 kg)	1

For sliver control, the application can be repeated after 6-8 weeks if necessary. It should be given by nasal meri probe in horses.

WITHDRAWAL PERIOD(S)

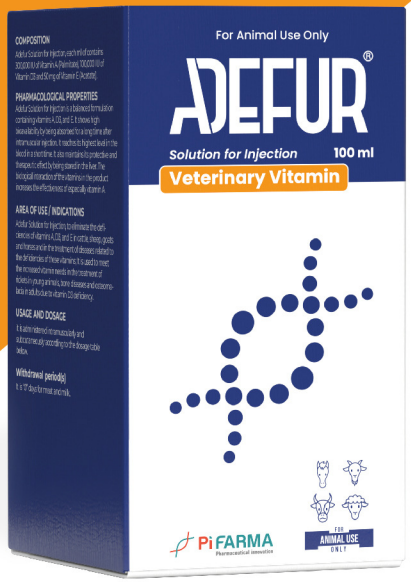
Meat: Sheep “0” day
Milk: It should not be used in dairy sheep producing milk for human consumption.

Read the package insert before use.

VITAMINS

Pi FARMA
Pharmaceutical innovation


VITAMIN B5
VITAMIN B12
VITAMIN B6
MINERAL P
VITAMIN A
VITAMIN D3
VITAMIN E
VITAMIN B2
VITAMIN B1
VITAMIN B5



Vial Sizes: 50-100-250 ml

ADEFUR®

Solution for Injection | Veterinary Vitamin

COMPOSITION Adefur Solution for Injection, each ml of contains 300.000 IU Vitamin A (Palmitate), 100.000 IU Vitamin D_3 and 50 mg Vitamin E (Acetate).

PHARMACOLOGICAL PROPERTIES

Adefur Solution for Injection is a balanced formulation containing vitamins A, D_3, and E. It shows high bioavailability by being absorbed for a long time after intramuscular injection. It reaches its highest level in the blood in a short time. It also maintains its protective and therapeutic effect by being stored in the liver. The biological interaction of the vitamins in the product increases the effectiveness of especially vitamin A.

AREA OF USE/INDICATIONS

Adefur Solution for Injection, to eliminate the deficiencies of vitamins A, D_3, and E in cattle, sheep, goats and horses and in the treatment of diseases related to the deficiencies of these vitamins; It is used to meet the increased vitamin needs in the treatment of rickets in young animals, bone diseases and osteomalacia in adults due to vitamin D_3 deficiency.

USAGE AND DOSAGE

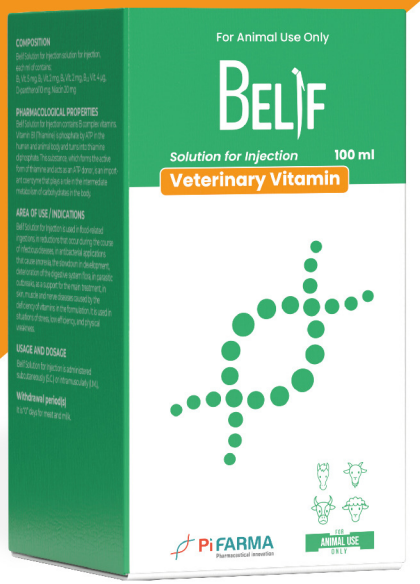
It is administered intramuscularly and subcutaneously according to the dosage table below.

Animal Type	Adefur Solution for Injection	Route of Administration
Cattle	5 ml	Deep intramuscular
Horse	5 ml	Deep intramuscular
Calf - Heifer	2-3 ml	Deep intramuscular
Calf - Foal (45-75kg)	1-2 ml	Deep intramuscular
Calf less than 45 kg	1 ml	Deep intramuscular
Sheep - Goat	1-2 ml	Subcutaneous
Lamb - Kid	0.5 ml	Subcutaneous

WITHDRAWAL PERIOD(S)

It is “0” days for meat and milk.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

Read the package insert before use.

BELIF

Solution for Injection | Veterinary Vitamin

COMPOSITION Belif Solution for Injection, each ml of contains; B_1 Vit. 5 mg, B_2 Vit. 2 mg, B_6 Vit. 2 mg, B_{12} Vit. 4 µg, D-panthenol 10 mg, Niacin 20 mg.

PHARMACOLOGICAL PROPERTIES

Belif Solution for Injection contains B complex vitamins.

Vitamin B_1 (Thiamine) is phosphate by ATP in the human and animal body and turns into thiamine diphosphate. This substance, which forms the active form of thiamine and acts as an ATP donor, is an important coenzyme that plays a role in the intermediate metabolism of carbohydrates in the body.

Vitamin B_2 (Riboflavin) forms prosthetic groups of numerous enzymes that are absolutely essential for the metabolism of carbohydrates, fats, and proteins in all pets.

Vitamin B_6 (Pyridoxine), its active derivatives, pyridoxal-5-phosphate, and pyridoxamine phosphate, form the coenzyme part of many enzymes involved in the absorption, metabolism, and transport of amino acids.

Vitamin B_{12} (Cyanocobalamin) is involved in versatile biological events by being transformed into methylcobalamin and co-enzyme B_{12} active metabolites in the animal body.

D-panthenol participates in the compositions of co-enzyme A and the acetyl carrier protein, which are of decisive importance in the realization of a wide variety of textural metabolic events in domestic animals.

Niacin acts as a co-factor in the versatile oxide reduction systems essential for tissue respiration by being converted into co-enzymes composed of NAD and NADP in all developed living things.

AREA OF USE/INDICATIONS

Belif Solution for Injection is used in food-related ingestions, in reductions that occur during the course of infectious diseases, in antibacterial applications that cause anorexia, the slowdown in development, deterioration of the digestive system flora, in parasitic outbreaks, as a support for the main treatment, in skin, muscle and nerve diseases caused by the deficiency of vitamins in the formulation. It is used in situations of stress, low efficiency, and physical weakness.

USAGE AND DOSAGE

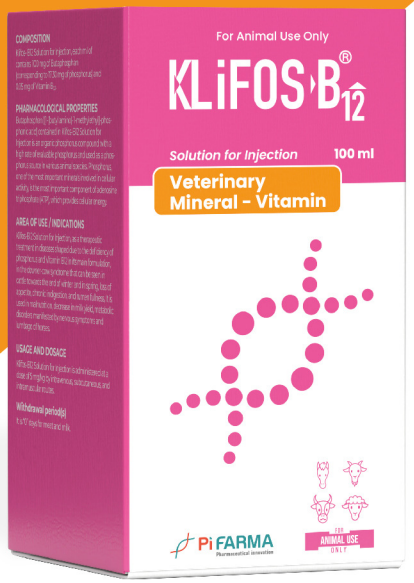
Belif Solution for Injection is administered subcutaneously (S.C.) or intramuscularly (I.M.),

Practical Dose Table

Animal Type	Amount to be given (ml)
Cattle, Buffalo and Horse	15 - 30 ml
Calf, Heifer	10 - 15 ml
Calf, Foal	5 - 10 ml
Sheep, Goat	5 - 10 ml
Lamb, Kid	3 - 5 ml

WITHDRAWAL PERIOD(S)

It is “0” days for meat and milk.



Vial Sizes: 100-250 ml

KLiFOS B12®

Solution for Injection | Veterinary Mineral-Vitamin

COMPOSITION

Klifos- B_{12} Solution for Injection, each ml of contains 100 mg Butaphosphan (corresponding to 17.30 mg of phosphorus) and 0.05 mg Vitamin B_{12}.

PHARMACOLOGICAL PROPERTIES

Butaphosphan ([1-(butyl amino)-1-methylethyl]-phosphonic acid) contained in Klifos-B_{12} Solution for Injection is an organic phosphorus compound with a high rate of evaluable phosphorus and used as a phosphorus source in various animal species. Phosphorus, one of the most important minerals involved in cellular activity, is the most important component of adenosine triphosphate (ATP), which provides cellular energy. Besides, it is one of the most important structural minerals of bone tissue along with calcium. It also plays a role in keeping the body's pH in balance by acting as a buffer in blood and urine.

AREA OF USE/INDICATIONS

Klifos-B_{12} Solution for Injection, as a therapeutic treatment in diseases shaped due to the deficiency of phosphorus and Vitamin B_{12} in its main formulation, in the downer-cow syndrome that can be seen in cattle towards the end of winter and in spring, loss of appetite, chronic indigestion, and rumen fullness, It is used in malnutrition, decrease in milk yield, metabolic disorders manifested by nervous symptoms and lumbago of horses.

- It is used in order to support the main treatment of diseases and developmental delays of newborns, metabolic disorders as a result of faulty care and nutrition, low productivity and anemia, nervous system diseases,
-To support calcium and magnesium treatment in tetany and paresis cases due to calcium, phosphorus, and magnesium metabolism disorders,
- in chronic diseases, extreme fatigue, exhaustion, weakness, after racing in racehorses and after overworking in power animals to support metabolism.

USAGE AND DOSAGE

Klifos-B_{12} Solution for Injection is administered at a dose of 5 mg/kg by intravenous, subcutaneous, and intramuscular routes.

Practical Dose Table

In acute diseases;

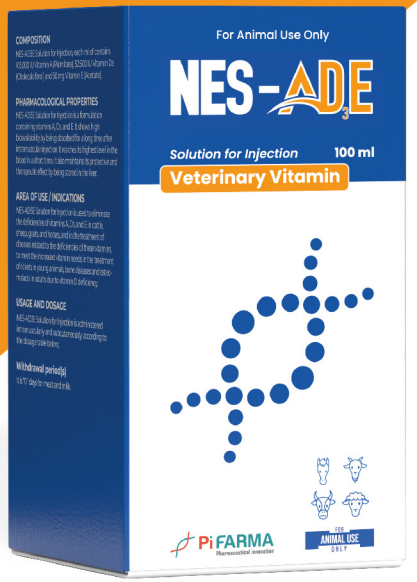
Animal Type	Dose	Animal Type	Dose
Horse, cattle	5-25 ml	Lamb, kid	1.5-2.5 ml
Foal, calf	5-12 ml	Dog	0.5-5 ml
Sheep, goat	2.5-5 ml	Cat	0.5-2.5 ml

In chronic diseases:
Half of the recommended doses above are administered. If necessary, repetitions can be made every 1-2 weeks or at shorter intervals. Half of the above doses are administered to healthy animals to increase productivity.

WITHDRAWAL PERIOD(S)

It is "0" days for meat and milk.

Read the package insert before use.



Vial Sizes: 50-100-250 ml

NES-ADE

Solution for Injection | Veteriner Vitamin

COMPOSITION

NES-AD₃E Solution for Injection, each ml of contains 105.000 IU Vitamin A (Palmitate), 52.500 IU Vitamin D₃ (Cholecalciferol) and 50 mg Vitamin E (Acetate).

PHARMACOLOGICAL PROPERTIES

NES-AD₃E Solution for Injection is a formulation containing vitamins A, D₃, and E. It shows high bioavailability by being absorbed for a long time after intramuscular injection. It reaches its highest level in the blood in a short time. It also maintains its protective and therapeutic effect by being stored in the liver.

Vitamin A: Provides regeneration and normal function of epithelial tissue, increases body resistance against infectious diseases and ensures growth. It supports protein, carbohydrate, and fat metabolism. It prevents night blindness. In its deficiency, the integrity of epithelial tissues is disrupted, and hyperkeratosis-type discomfort occurs.

Vitamin D₃: It regulates the metabolism of calcium and phosphorus and increases their biological use. The development and hardening of the skeletal tissue, ensures the formation and consolidation of the eggshell in poultry. In case of deficiency, calcium-phosphorus metabolism is disturbed. Bone and skeletal disorders such as rickets and osteomalacia occur.

Vitamin E: Vitamin E ensures the development and normal function of the genital organs. It facilitates fertilization and pregnancy. It regulates the metabolism of carbohydrates and creatinine. It supports development and growth. Increases hatching ability. It plays a role in neutralizing free-flowing oxygen groups with its antioxidant feature.

AREA OF USE/INDICATIONS

NES-AD₃E Solution for Injection is used to eliminate the deficiencies of vitamins A, D₃, and E in cattle, sheep, goats, and horses, and in the treatment of diseases related to the deficiencies of these vitamins, to meet the increased vitamin needs in the treatment of rickets in young animals, bone diseases and osteomalacia in adults due to vitamin D deficiency.

USAGE AND DOSAGE

NES-AD₃E Solution for Injection is administered intramuscularly and subcutaneously according to the dosage table below;

Animal Type	NES-AD₃ E Solution for Injection	Route of Administration	Animal Type	NES-AD₃ E Solution for Injection	Route of Administration
Cattle	5 – 10 ml	Deep intramuscular	Calf, Foal	2 – 3 ml	Deep intramuscular
Horse	5 – 10 ml	Deep intramuscular	Sheep, Goat	1 – 2 ml	Subcutaneous
Calf, Heifer	2.5 – 5 ml	Deep intramuscular	Lamb, Kid	0.5 – 1 ml	Subcutaneous

For the prevention of vitamin deficiency, the application can be repeated every 2-3 months.

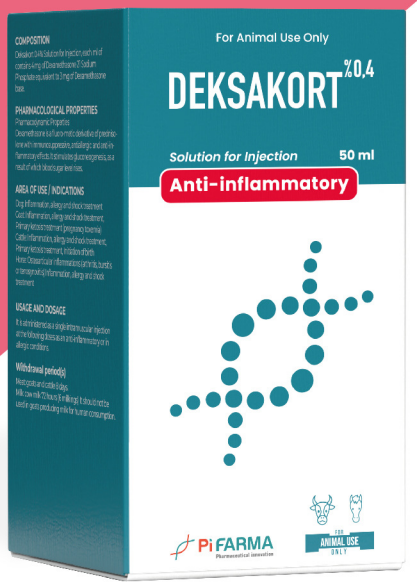
WITHDRAWAL PERIOD(S)

It is “0” days for meat and milk.

Read the package insert before use.

HORMONES

Pi FARMA
Pharmaceutical innovation



Vial Sizes: 20-50-100 ml

DEKSAKORT %0,4

Solution for Injection | Anti-inflammatory

COMPOSITION Deksakort 0.4% Solution for Injection, each ml of contains 3 mg Dexamethasone.

PHARMACOLOGICAL PROPERTIES

Pharmacodynamic Properties

Dexamethasone is a fluoro-metic derivative of prednisolone with immunosuppressive, antiallergic and anti-inflammatory effects. It stimulates gluconeogenesis, as a result of which blood sugar level rises.

Pharmacokinetic Properties

The product has a fast onset effect and the effect is short-lived (approximately 48 hours). The ester form is rapidly absorbed and metabolized by hydrolysis to dexamethasone after administration by routes other than intravenous. it reaches its maximum plasma concentration 20 minutes after administration in cattle, horses and dogs. Bioavailability in intramuscular administration is almost 100%. The elimination half-life is 5-20 hours depending on the species after intravenous and intramuscular administration.

AREA OF USE/INDICATIONS

Dog: Inflammation, allergy and shock treatment
Goat: Inflammation, allergy and shock treatment, Primary ketosis treatment (pregnancy toxemia)
Cattle: Inflammation, allergy and shock treatment, Primary ketosis treatment, Initiation of birth
Horse: Osteoarticular inflammations (arthritis, bursitis or tenosynovitis) Inflammation, allergy and shock treatment

USAGE AND DOSAGE

It is administered as a single intramuscular injection at the following doses as an **anti-inflammatory or in allergic conditions.**

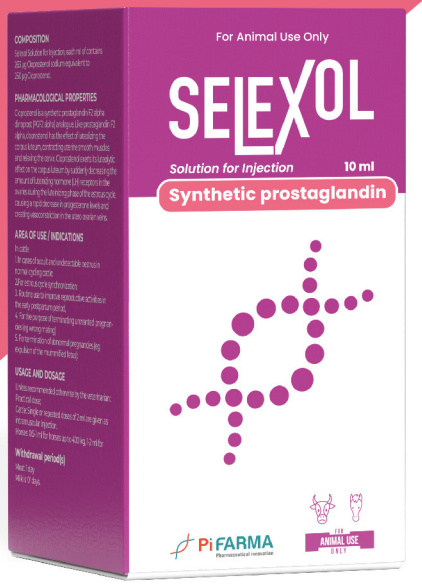
Type	Route of Administration	Pharmacological dose	Practical dose
Horse, Cattle	I.M., I.V., S.C.	0.06 mg/kg dexamethasone	1.5 ml of product per 100 kg of bw
Goat	I.M., I.V., S.C.	0.06 mg/kg dexamethasone	0.5 ml of product per 33 kg of bw
Dog	I.M., S.C.	0.1 mg/kg dexamethasone	0.5 ml of product per 20 kg of bw

In the treatment of primary ketosis in cattle, 0.02-0.04 mg/kg dexamethasone (1-2 ml/200 kg bw) is administered intramuscularly as a single dose. **In order to induce labor in cattle,** a single dose of 5 ml is administered intramuscularly from the 260th day of pregnancy. Labor should begin 48-72 hours after the application. **For the treatment of arthritis, bursitis or tenosynovitis in horses,** 0.5-2.5 ml is applied intra-articularly.

WITHDRAWAL PERIOD(S)

Meat: Goats and cattle 8 days.
Milk: Cow milk 72 hours (6 milkings) It should not be used in goats producing milk for human consumption.

Read the package insert before use.



Vial Sizes: 10-50 ml

SELEXOL

Solution for Injection | Synthetic Prostaglandin

COMPOSITION Selexol Solution for Injection, each ml of contains 250 µg Cloprostenol.

PHARMACOLOGICAL PROPERTIES

Cloprostenol is a synthetic prostaglandin F_2 alpha dinoprost (PGF_2 alpha) analogue. Like prostaglandin F_2 alpha, cloprostenol has the effect of luteolizing the corpus luteum, contracting uterine smooth muscles and relaxing the cervix. Cloprostenol exerts its luteolytic effect on the corpus luteum by suddenly decreasing the amount of luteinizing hormone (LH) receptors in the ovaries during the luteinizing phase of the oestrus cycle, causing a rapid decrease in progesterone levels and creating vasoconstriction in the utero ovarian veins. Thus, the secretion of FSH hormone in the anterior lobe of the pituitary gland increases and normal oestrus and ovulation are achieved following the formation of a new follicle.

AREA OF USE/INDICATIONS

In cattle

1. In cases of occult and undetectable oestrus in normal-cycling cattle,
2. For oestrus cycle synchronization,
3. Routine use to improve reproductive activities in the early postpartum period,
4. For the purpose of terminating unwanted pregnancies (eg wrong mating),
5. For termination of abnormal pregnancies (eg expulsion of the mummified fetus),
6. Application for initiation of normal birth,
7. Application in retensio secundinarum, pyometra and chronic metritis,
8. Treatment of luteal cysts.

In mares

1. In cases of latent and undetectable oestrus (calm oestrus),
2. In cases of prolonged diestrus,
3. In cases of resorption following premature fetal deaths,
4. In cases of false pregnancy,
5. In cases of lactational anestrous,
6. For abortion before the 45th day of pregnancy,
7. For the purpose of bringing into oestrus suitable for mating time,
8. For the synchronization of the oestrus cycle.

USAGE AND DOSAGE

Practical dose;
Cattle: Single or repeated doses of 2 ml are given as intramuscular injection.
Horses: 0.5-1 ml for horses less than 400 kg, 1-2 ml for horses over 400 kg. The application area should be dry and clean.

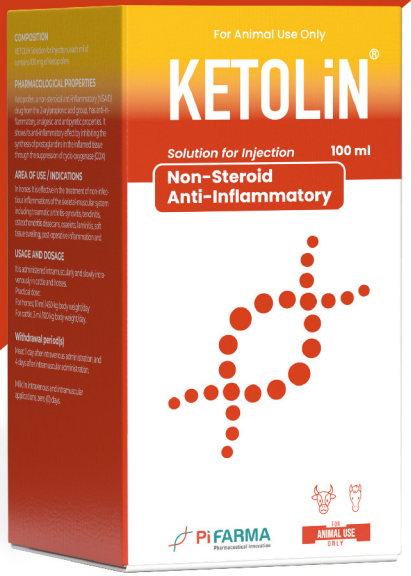
WITHDRAWAL PERIOD(S)

Meat: 1 day
Milk: '0' days.

Read the package insert before use.

ANTI-INFLAMMATORY

Pi FARMA
Pharmaceutical innovation



Vial Sizes: 50-100-250 ml

KETOLiN®

Solution for Injection | Non-Steroid Anti-Inflammatory

COMPOSITION Ketolin Solution for Injection, each ml of contains 100 mg Ketoprofen.

PHARMACOLOGICAL PROPERTIES

Ketoprofen, a non-steroidal anti-inflammatory (NSAID) drug from the 2-arylpropionic acid group, has anti-inflammatory, analgesic and antipyretic properties. It shows its anti-inflammatory effect by inhibiting the synthesis of prostaglandins in the inflamed tissue through the suppression of cyclo-oxygenase (COX) enzymes. It performs its analgesic effect by suppressing the pain centers in the hypothalamus. It creates its antipyretic effect by increasing the sensitivity level of heat receptors in heat centers, which are reduced by pyrogen substances.

AREA OF USE/INDICATIONS

In horses: It is effective in the treatment of non-infectious inflammations of the skeletal-muscular system including traumatic arthritis-synovitis, tendinitis, osteochondritis dissecans, osselets, laminitis, soft tissue swelling, post-operative inflammation and swelling, and in reducing visceral pain in colic cases due to various reasons. It is also used for the treatment of ocular inflammations such as uveitis, keratitis and traumatic corneal ulceration.

In cattle: It is effective in the treatment of cases of non-infectious inflammation of the skeletal musculoskeletal system. For example, in cases of inability to stand up due to postpartum (postpartum) musculoskeletal disorders. It is recommended to be used in addition to specific treatment in the treatment of respiratory system diseases, acute mastitis, breast edema and colic. It is used to control the harmful effects of endotoxins, especially in gram-negative bacterial infections.

USAGE AND DOSAGE

It is administered intramuscularly and slowly intravenously in cattle and horses.

Practical dose:

For horses; 10 ml / 450 kg body weight / day

For cattle; 3 ml / 100 kg body weight / day.

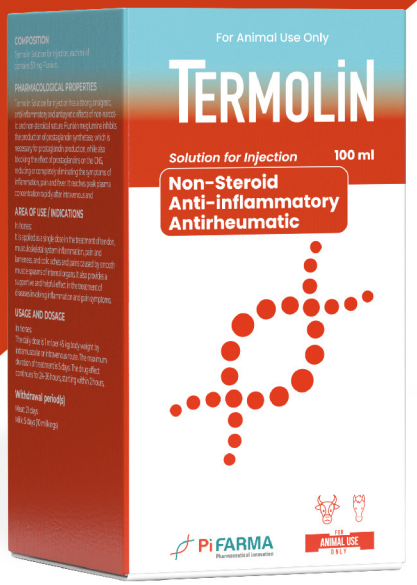
Treatment should be continued for 3-5 days.

WITHDRAWAL PERIOD(S)

Meat: 1 day after intravenous administration, and 4 days after intramuscular administration.

Milk: In intravenous and intramuscular applications, zero (0) days.

Read the package insert before use.



Vial Sizes: 50-100 ml

TERMOLİN

Solution for Injection | Non-Steroid Anti-inflammatory Antirheumatic

COMPOSITION
Termolin Solution for Injection, each ml of contains 50 mg Flunixin.

PHARMACOLOGICAL PROPERTIES
Termolin Solution for Injection has a strong analgesic, anti-inflammatory and antipyretic effects of non-narcotic and non-steroidal nature. Flunixin meglumine inhibits the production of prostaglandin synthetase, which is necessary for prostaglandin production, while also blocking the effect of prostaglandins on the CNS, reducing or completely eliminating the symptoms of inflammation, pain and fever. It reaches peak plasma concentration rapidly after intravenous and intramuscular administration. Bio-half-life: 1.6 hours in horses, 3.7 hours in dogs, 8-10 hours in cattle.

AREA OF USE/INDICATIONS
In horses:
It is applied as a single dose in the treatment of tendon, musculoskeletal system inflammation, pain and lameness, and colic aches and pains caused by smooth muscle spasms of internal organs. It also provides a supportive and helpful effect in the treatment of diseases involving inflammation and pain symptoms.
In cattle:
It is used as a single dose in acute mastitis, musculoskeletal system inflammation and pain, spasms of smooth muscles. In this case, Termolin Solution for Injection reduces the amount of lactic acid in blood and tissues, prevents hypotension, improves the venous return to the heart and reduces damage to vascular endothelial cells. It is used as a support for the main treatment in E. coli septicemia (colibacillosis of newborns). It is also useful in preventing inflammation after corneal surgery.

USAGE AND DOSAGE
In horses:
The daily dose is 1 ml/45 kg body weight by intramuscular or intravenous route. The maximum duration of treatment is 5 days. The drug effect continues for 24-36 hours, starting within 2 hours, with a peak level in 12-16 hours. Intravenous administration is recommended for immediate relief of colic pain and relief of the animal. The effect starts in 15 minutes. If the pain reoccurs, the dose can be repeated. Supportive treatment should be considered here.
In cattle:
It is preferably administered intravenously. Daily dose: 2.2 mg/kg bw (2 ml/45 kg body weight), maximum duration is 5 days. As support in E. coli septicemia and endotoxin treatment, half-dose (1.1 mg/kg bw) medication can be repeated at 8-hour intervals if necessary. It should be used together with other main and supportive treatments by determining the causes in acute inflammations.

WITHDRAWAL PERIOD(S)
Meat: 21 days
Milk: 5 days (10 milkings)

Read the package insert before use.

GENERAL INFORMATION

Normal Rectal Temperature Ranges

Species	(°C)	Species	(°C)
Cat	38.1-39,2	Sheep	38.3-39,9
Dog	37.9-39.9	Goat	38.5-39.7
Horse (Mare)	37.3-38.2	Beef cow	36.7-39.1
Horse (Stallion)	37.2-38.1	Dairy cow	38.0-39.3
Chicken (daylight)	40.6-43.0	Pig	38.7-39.8

Resting Respiratory Rates

Species	Breaths /min (range)
Cat	16–40
Dog	18–34
Horse	10–14
Sheep	16–34
Goat	12–15
Dairy Cow	26-50
Pig	32–58

Resting Heart Rates

Species	bpm (range)	Species	bpm (range)	Species	bpm (range)	Species	bpm (range)
Dairy Cow	48–84	Cat	120–140	Chicken (adult)	250–300	Rat	250–400
Ox	36–60	Dog	70–120	Hamster	300–600	Rabbit	180–350
Sheep	70–80	Horse	28–40	Mouse	450–750	Elephant	25–35
Goat	70–80	Chick	350–450	Guinea Pig	200–300	Pig	70–120

Pi FARMA
Pharmaceutical innovation

SOURCE
Resting Respiratory Rates*
Reece WO, Respiration in Mammals, in Dukes' Physiology of Domestic Animals, 12th ed., Reece WO, Ed. Copyright 2004 by Cornell University.
Normal Rectal Temperature Ranges*
Robertshaw D. Temperature Regulation and Thermal Environment, in Dukes' Physiology of Domestic Animals, 12th ed., Reece WO, Ed. Copyright 2004 by Cornell University.
Resting Heart Rates*
Detweiler DK and Erickson HH, Regulation of the Heart, in Dukes' Physiology of Domestic Animals, 12th ed., Reece WO, Ed. Copyright 2004 by Cornell University.

APPROXIMATE GESTATION PERIODS

Domestic Animals	Days	Domestic Animals	Days
Cat	65	Jersey	279
Dog	62–64[b]	Limousin	289
Cattle[a]		Shorthorn	282
Angus	281	Simmental	289
Ayrshire	279	Donkey	365
Brahman	292	Goat	150
Brown Swiss	290	Horse[c]	335–342
Charolais	289	Llama, Alpaca[c]	335–365
Guernsey	283	Pig	114
Hereford	285	Rabbit	31
Holstein	279	Sheep	150

Farmed Fur Animals	Days
Chinchilla	111
Ferret	42
Fox	52
Mink	
European	41
American	40–75

[a] *Individuals may range ±7–10 days from these averages.*
[b] *Gestation period is 58–72 days from breeding at unknown stage of estrus; from day of ovulation (which can be determined by progesterone or LH monitoring), gestation period is 62–64 days.*
[c] *Individuals may range 20 days from these averages.*
[d] *180+ days due to delayed implantation*

Wild Animals	Days	Wild Animals	Days	Wild Animals	Days	Wild Animals	Days
Bear (Black)	210	Gorilla	270	Wolf	63	Rhinoceros (African)	480
Bison	280	Hare	36	Opossum	12	Seal	330
Camel	365-400	Hippopotamus	240	Otter	270–300[d]	Skunk	63
Chimpanzee	236	Leopard	95	Panther	90	Squirrel (Gray)	40
Coyote	63	Lion	108	Porcupine	210	Tiger	103
Elephant	660	Monkey (Macaque)	180	Raccoon	63	Walrus	450
Giraffe	425	Muskrat	29	Reindeer	225	Whale	450

SOURCE
Approximate Gestation Periods*
The Merck Veterinary Manual, Eleventh Edition (June, 2016)

Pi FARMA
Pharmaceutical innovation

Note:

PiFARMA
Pharmaceutical innovation

Note:

Note:

PiFARMA
Pharmaceutical innovation


Pi FARMA
Pharmaceutical innovation
by hasvet
Malıköy Başkent OSB Mah. 26. Cad. No: 34/A
Sincan/Ankara/TÜRKİYE
+90 312 255 98 60 - 65 Fax: +90 312 255 98 78