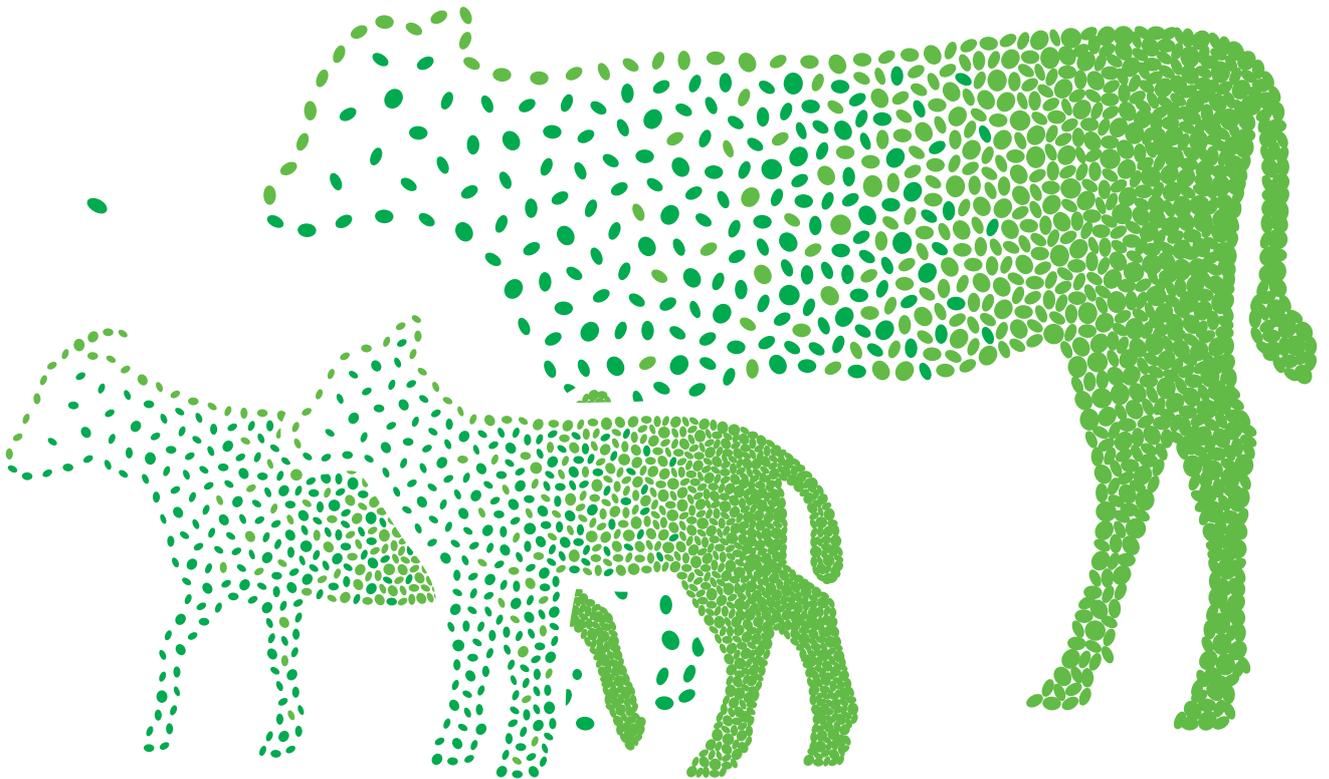


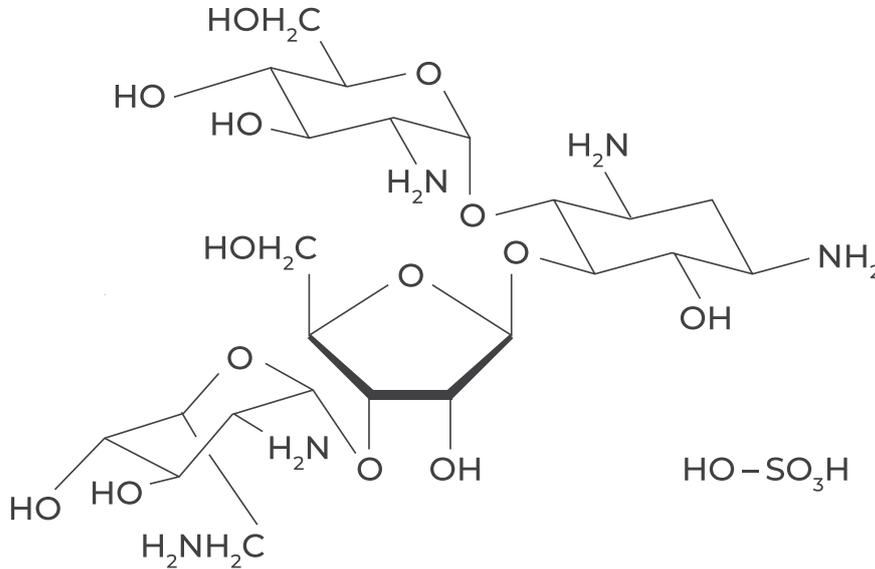


Take control
of neonatal
diarrhoea with
Parofor[®]



In-house production

Huvepharma®'s brand Parofor®, with its active ingredient **paromomycin sulphate**, has been a synonym for quality and efficacy in treating gastro-intestinal problems in young animals for many years.



Bacterial and antiprotozoal activity

Low bioavailability

Huvepharma® expertise in fermentation and production

Fermentation and technical expertise has developed over the past 70 years at our European manufacturing sites in Bulgaria. The Razgrad plant was established in 1954, the first Peshtera plant was established in 1961.

The new fermentation plant, recently built in Peshtera, has a total capacity of 3.500m³. With a total fermentation capacity of over 10.000m³, Huvepharma® has one of the largest fermentation capacities in the world. This enables the company to take control of the entire manufacturing process, from strain to shelf.

Huvepharma® production follows the highest standards

Huvepharma® adheres to the Pharmaceutical Quality System, which incorporates Good Manufacturing Practices and Quality Risk Management. This guarantees Parofor®'s quality, safety and efficacy.



Product Data Sheets

PDS Parofor 70 mg/g powder for cattle and pigs

PDS Parofor 140 mg/ml solution for use in drinking water for cattle and pigs

PDS Parofor Crypto 140 mg/ml oral solution for sheep and goats

PDS Parofor Crypto 140 mg/ml oral solution for calves

Product Data Sheet
Parofor[®]
70 mg/g powder for cattle and pigs

Composition
1 gram powder contains 100 mg paromomycin sulphate, equivalent to 70 mg paromomycin base.

Pharmaceutical form
Powder for use in drinking water, milk or milk replacer for post-weaned cattle and pigs.

Target species
Post-weaned cattle, pig.

Indications
Treatment of gastro-intestinal infections caused by *Klebsiella coli*, *Escherichia coli* and *Salmonella* spp.

Practical dosing and administration
Cattle use: 5-7 day treatment.
Pigs: 5-7 day treatment.

Storage
Product is packed for sale, do not store above 30°C. After first opening do not store above 25°C. After the sachet is opened, do not store above 25°C.

Shelf life
24 months from the date of packaging in the immediate packaging. 6 months after first opening the immediate packaging. 3 months after reconstruction in drinking water. 24 hours after reconstruction in milk/milk replacer. 6 hours after reconstruction in milk/milk replacer.

Contraindications
Do not use in animals with known hypersensitivity to paromomycin, other aminoglycosides or any of the excipients.

Withdrawal periods
Pigs: 3 days.



Product Data Sheet
Parofor[®]
140 mg/ml solution for use in drinking water for cattle and pigs

Composition
Active substance: Paromomycin sulfate 200 mg/ml equivalent to paromomycin base 140 mg/ml or 140000 IU of paromomycin activity per ml.

Pharmaceutical form
Solution for use in drinking water, milk or milk replacer. A clear yellow to amber solution.

Target species
Cattle (post-weaned calves), pigs.

Indications
Treatment of gastro-intestinal infections caused by *Klebsiella coli* and *Salmonella* spp.

Practical dosing and administration
For cattle:
- 100 ml of solution per 100 kg of live weight.
- 200 ml of solution per 200 kg of live weight.
- 400 ml of solution per 400 kg of live weight.
- 800 ml of solution per 800 kg of live weight.
- 1.6 L of solution per 1.6 t of live weight.

Storage
Product is packed for sale, do not store above 30°C. After first opening do not store above 25°C. After the sachet is opened, do not store above 25°C.

Shelf life
24 months from the date of packaging in the immediate packaging. 6 months after first opening the immediate packaging. 3 months after reconstruction in drinking water. 24 hours after reconstruction in milk/milk replacer. 6 hours after reconstruction in milk/milk replacer.

Contraindications
Do not use in animals with known hypersensitivity to paromomycin, other aminoglycosides or any of the excipients.

Withdrawal periods
Pigs: 3 days.



Product Data Sheet
Parofor[®] CRYPTO
140 mg/ml oral solution for sheep and goats

Composition
Active substance: Paromomycin sulfate 200 mg/ml equivalent to paromomycin base 140 mg/ml or 140000 IU of paromomycin activity per ml.

Pharmaceutical form
Oral solution. A clear yellow to amber solution.

Target species
Sheep (post-weaned lambs) and goats (post-weaned kids).

Indications
Reduction of the severity and the duration of diarrhoea associated with *Cryptosporidium parvum* in individual animals confirmed to have cryptosporidiosis oocysts in their faeces.

Practical dosing and administration
For lambs:
- Dose rate: 35 000 IU of paromomycin base/kg live weight for 7 consecutive days.
For kids:
- Dose rate: 35 000 IU of paromomycin base/kg live weight for 7 consecutive days.

Storage
Product is packed for sale, do not store above 30°C. After first opening do not store above 25°C. After the sachet is opened, do not store above 25°C.

Shelf life
24 months from the date of packaging in the immediate packaging. 6 months after first opening the immediate packaging. 3 months after reconstruction in drinking water. 24 hours after reconstruction in milk/milk replacer. 6 hours after reconstruction in milk/milk replacer.

Contraindications
Do not use in animals with known hypersensitivity to paromomycin, other aminoglycosides or any of the excipients.

Withdrawal periods
None and offer 20 days.



Product Data Sheet
Parofor[®] CRYPTO
140 mg/ml oral solution for calves

Composition
Active substance: Paromomycin sulfate 200 mg/ml equivalent to paromomycin base 140 mg/ml or 140000 IU of paromomycin activity per ml.

Pharmaceutical form
Oral solution. A clear yellow to amber solution.

Target species
Cattle (post-weaned calves).

Indications
Reduction of the occurrence of diarrhoea due to diagnosed *Cryptosporidium parvum*. Calves should only receive the product upon confirmation of cryptosporidiosis oocysts in their faeces and before the onset of diarrhoea. Paromomycin reduces faecal oocyst shedding.

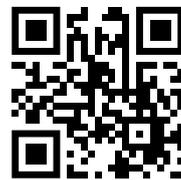
Practical dosing and administration
For calves:
- Dose rate: 35 000 IU of paromomycin base/kg live weight for 7 consecutive days.

Storage
Product is packed for sale, do not store above 30°C. After first opening do not store above 25°C. After the sachet is opened, do not store above 25°C.

Shelf life
24 months from the date of packaging in the immediate packaging. 6 months after first opening the immediate packaging. 3 months after reconstruction in drinking water. 24 hours after reconstruction in milk/milk replacer. 6 hours after reconstruction in milk/milk replacer.

Contraindications
Do not use in animals with known hypersensitivity to paromomycin, other aminoglycosides or any of the excipients.

Withdrawal periods
None and offer 42 days.

Neonatal diarrhoea: a major burden for farm profitability

The two most important pathogens:

E. coli

E. coli, *Cryptosporidium*, Rotavirus and Coronavirus are the four major enteric pathogens known to cause neonatal diarrhoea. Although a single pathogen can be the cause, co-infection is frequently observed and more severe when *E. coli* is present. Enterotoxigenic *E. coli* are the most common that cause diarrhoea in newborn ruminants (within first 3 days).

Cryptosporidium parvum

From the 4 major *Cryptosporidium* species infecting cattle (*C. parvum*, *C. bovis*, *C. andersoni*, *C. ryanae*), *Cryptosporidium parvum*, found in most mammals including humans, is responsible for the majority of infections in ruminants. Diagnosis is based on the detection of oocysts in the faeces of the calf (days 3 to 12).

One safe and effective oral treatment: Parofor[®]
50 mg/kg BW/day for 5-7 days

Shaping livestock solutions for healthier animals and sustainable farms

Quality

- ▶ Specialists in fermentation and formulation
- ▶ EU state-of-the-art manufacturing sites

Global network

- ▶ Active in more than 100 countries in all continents
- ▶ Dedicated and customer focused teams

Sustainable production

- ▶ Ecologically friendly technologies
- ▶ Environmental consciousness

Huvepharma®'s brand of paromomycin: Parofor® Developed for optimal clinical efficacy and to optimise responsible use

- ▶ 2 Formulations – 4 presentations
 - Targeting the species: cattle-pigs / small ruminants
 - Targeting the pathogen: colibacillosis / cryptosporidiosis

