

WHY SHOULD METRISAN BE USED?

IT IS EFFECTIVE:

- High rates of clinical and bacteriological cure due to its unique broad spectrum combination.
- Fast animal's return to its productive and reproductive life.

IT IS SAFE:

- It does not irritate the intrauterine mucosa.
- It does not generate local inflammation.
- It requires no withdrawal period for meat and milk.

IT IS PRACTICAL:

- Exclusive design for intrauterine application.
- It comes with obstetric gloves and intrauterine cannulas.



Formula: each 20 ml-syringe contains:

Gentamicin(*)200 mg
Cephalexin monohydrate..... 600 mg
Formulation agents.....q.s.

(*) It is added as gentamicin sulfate 307.7 mg of sulfate are equivalent to 200 mg.

Indications: prevention and cure of subacute and chronic endometritis in bovines.

Dosage: each syringe contains one dose, which must be introduced into the uterus using the attached cannula.

Administration:

- Attach the syringe to the cannula.
- With the gloved hand inserted into the rectum, fix the cervix.
- Pass the cannula through the cervix making gentle oscillating movements and introduce it into the uterus.
- Inject all the syringe contents.

Presentation: box containing 10 (ten) 20 ml-syringes, 10 obstetric gloves and 10 intrauterine cannulas.

METRISAN



INTRAUTERINE EMULSION
TO BE USED IN BOVINES



over
VETERINARY MEDICINE

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METRISAN

The most effective combination
for the treatment of endometritis
and metritis.



over
VETERINARY MEDICINE



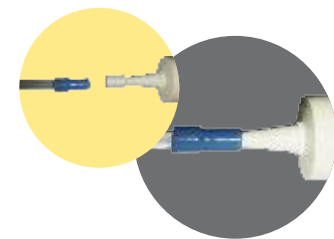
METRISAN

CEPHALEXIN + GENTAMICIN

The most effective synergistic combination for the treatment of endometritis and metritis.



“Flexi-Click” system



Highly-resistant flexible cannula, with rubber adapter.

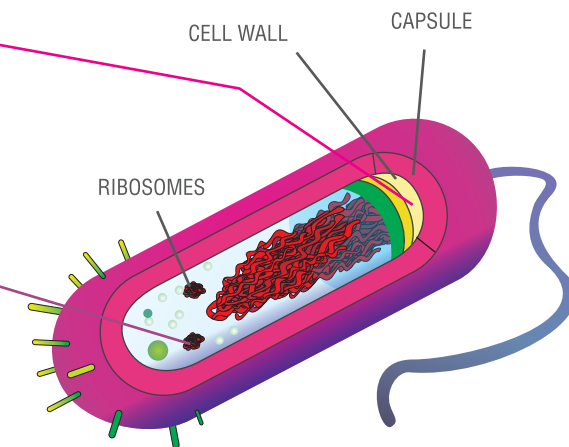
METRISAN is a therapeutic tool indicated for the treatment of endometritis and metritis in bovines. Its formulation combines 2 antibiotics of proven effectiveness against the main microorganisms that produce endometritis. The product is formulated with an oily excipient that allows it to be quickly spread and dispersed in the uterine lumen and endometrium. Each syringe containing METRISAN comes with its applicator cannula and an obstetrical glove that makes work easy and reduces the risk of infectious contagion between animals.

CEFALEXIN

IT ACTS ON THE BACTERIAL CELL WALL.

GENTAMICIN

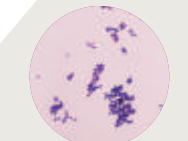
IT INTERFERES IN THE NORMAL SYNTHESIS OF PROTEINS, GIVING RISE TO NON-FUNCTIONAL PROTEINS.



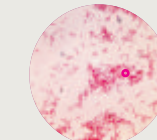
SPECTRUM OF ACTION OF CEPHALEXIN AND GENTAMICIN.

Main bacteria causing endometritis and metritis.

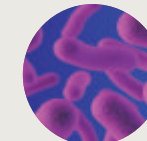
CEFALEXIN



Arcanobacterium pyogenes



Fusobacterium necrophorum



Bacteroides spp.

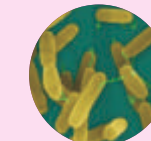


Streptococcus spp.

GENTAMICIN



E. coli



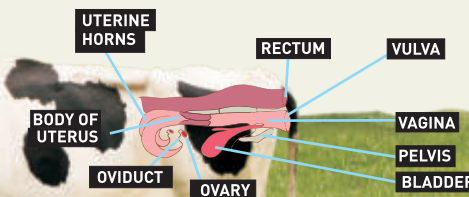
Pseudomonas spp.

SYNERGISTIC ACTIVITY OF METRISAN.

Antibacterial synergism” is the term used to describe the phenomenon that occurs when the therapeutic effect achieved with the combination of antimicrobials is greater than that obtained with each active ingredient used individually (Lambert, 1992).

Regarding the combination included in METRISAN, cephalixin is involved in the cell wall synthesis, increasing the bacterium permeability. In this way, it helps gentamicin to reach its intracellular target that is, the 30s ribosomal subunit thus generating non-functional proteins. In the case of METRISAN, synergism

results from increased uptake of gentamicin due to the cephalixin effect on the cell wall (Wetebraak E., 1990). Therefore, METRISAN is effective in the treatment of endometritis and metritis by ensuring the recovery of treated animals and a safe return to their reproductive life.



BOVINE REPRODUCTIVE SYSTEM