

# TIRSAN INJECTION

*Injectable solution*

## COMPOSITION

100 ml of solution contains: Thiamphenicol 25 g

## PROPERTIES

Thiamphenicol (TAF) is an antibiotic possessing a chemical structure very similar to that of Chloramphenicol (CAF), from which it differs in the substitution of the p-nitro group with a p-methylsulphonyl radical. This substitution renders TAF free from toxicological characteristics, such as dose-independent progressive pancytopenia, which are characteristic of CAF.

TAF is a broad-spectrum antibiotic, active against both Gram-positive and Gram-negative bacteria (including anaerobes and strains producing beta-lactamase and nitroreductase enzymes), Chlamydiae, mycoplasmas, Rickettsiae and some protozoa.

TAF, through inhibition of protein synthesis, blocks bacterial multiplication, showing a powerful bacteriostatic-bactericidal effect, maintained even in infections characterised by a purulent component or by mucous hypersecretion.

Administered by the intramuscular route, it is rapidly absorbed, so much so as to give bioavailability values analogous to those obtained by intravenous administration.

TAF, owing to its low percentage of protein binding and high liposolubility, is widely and rapidly distributed throughout the organism, where it reaches concentrations equal, or superior, to those in the blood (in particular the lungs and udder).

Unlike other antibiotics, TAF is practically non-metabolised and persists in an unmodified and biologically active form for the entire period it is present in the organism, exercising a prolonged antibiotic action. It is eliminated in active form via the urine and the bile, demonstrating its efficacy even in urinary and intestinal infections.

TAF shows a high therapeutic index and excellent local tolerance; moreover, it is free from risks of toxicity either for animals or consumers.

## ADVANTAGES

Broad spectrum.

High, rapid absorption.

High tissue concentrations reached very quickly throughout the organism, in particular lungs and udder. Perfect correlation between antibiotic levels present in the organism and levels of pharmacologically active antibiotic.

Ready-to-use solution with excellent syringability characteristics.

## INDICATIONS

For cattle, sheep, goats, swine and turkeys.

Septic infections caused by sensitive micro-organisms. Use is advised, in particular, in septicaemias caused by *Salmonellae*, *E. coli*, *Pasteurellae*, *Clostridia* etc. in intestinal infections and in bronchopneumonia and pneumonia caused by shipping, in secondary infections following viral diseases, in infections of the urinary ducts, in metritis, pyometra and mastitis, in hoof infections, in dermatitis.

## DOSAGE AND METHOD OF USE

Cattle, sheep, goats and swine: 25 mg / Kg body weight, equivalent to 10 ml / 100 Kg body weight, by the intramuscular route in one daily administration for 3-5 days.

Turkeys: 40 mg / Kg body weight, equivalent to 0.16 ml / Kg. body weight, by the intramuscular route in one daily administration for 2-3 days.

## PACKINGS

100 ml bottle.

250 ml bottle.