



# Pharmasin<sup>®</sup> 100% WSG

TYLOSIN TARTRATE





Pharmasin® 100% Water Soluble Granules (WSG) contain Tylosin tartrate. Tylosin is a macrolide antibiotic produced by a strain of *Streptomyces fradiae*.

Pharmasin is registered exclusively for veterinary use and primarily for Chronic Respiratory Disease like *Mycoplasma spp.* and gastrointestinal disease in pigs, poultry and cattle.

#### STRUCTURE AND ACTIVITY

Tylosin is a mixture of four macrolide antibiotics (Tylosin A, B, C, and D) produced by a strain of *Streptomyces fradiae*. The main component of the mixture (> 80%) is tylosin A.

#### MODE OF ACTION

Tylosin binds to the 23S rRNA in the 50S ribosome subunit and inhibits mRNA-directed protein synthesis of susceptible micro-organisms. The tylosin spectrum of activity includes *Mycoplasma spp.*, Gram-positive bacteria and some Gram-negative bacteria.

#### PHARMACOKINETICS AND DYNAMICS

##### Absorption

In poultry, Pharmasin® 100% WSG is quickly absorbed from the alimentary tract. Tylosin reached maximum blood levels between 1 and 3 hours after oral administration.

##### Elimination

Pharmasin® 100% is extensively metabolized, and most of the residues are excreted in faeces predominantly consisting of tylosin A, tylosin factor D and dihydrodesmycosin.

#### SOLUBILITY

Pharmasin® 100% WSG is highly soluble. The solubility was evaluated by comparing the product with a reference sample of tylosin of highest possible concentration. Pharmasin® 100% water soluble granules need less time to fully dissolve, regardless of drinking water qualities.

$$\frac{\dots \text{ mg tylosin/} \\ \text{kg body weight/day}}{\text{Average amount of drinking} \\ \text{water/animal (l)}} \times \text{Average body weight (kg)} \\ \text{of the animals to be treated} = \dots \text{ mg tylosin/} \\ \text{l of drinking} \\ \text{water}$$

#### OTHER SPECIES

Pharmasin® 100% is also registered for pigs and calves.

#### DOSE AND ADMINISTRATION

An oral drinking water administration of 1.1 gram of the veterinary medicinal product corresponds to 1 gram of tylosin. The dosages are as follows:

##### Chicken (broilers, pullets)

###### Prevention of chronic respiratory disease:

- 60-75 mg tylosin per kg BW per day (corresponding to 66-82.5 mg of the veterinary medicinal product per kg BW) for 3-5 days and repeat every 4-6 weeks.

###### Treatment of chronic respiratory disease:

- 100-110 mg tylosin per kg BW per day (corresponding to 110-121 mg of the veterinary medicinal product per kg BW) for 3-5 days.

###### Treatment of necrotic enteritis:

- 20 mg tylosin per kg BW per day (corresponding to 22 mg of the veterinary medicinal product) for 3 days.

OR AS RECOMMENDED BY THE VETERINARIAN.

#### INDICATIONS FOR USE

##### Chicken (broilers and pullets)

- Treatment and prevention of chronic respiratory diseases (CRD) caused by *Mycoplasma gallisepticum* and *Mycoplasma synoviae*.
- Treatment and prevention of necrotic enteritis caused by *Clostridium perfringens*.

#### SOLUBILITY PHARMASIN®



#### PACKAGING

Pharmasin® is available in 1.1 kg and 110 gm pouches.

1.1 kg Pharmasin® contains 1.00 kg of active Tylosin as Tylosin tartrate.

110 gm Pharmasin® contains 100 gm of active Tylosin as Tylosin tartrate.

#### WITHDRAWAL PERIOD

3 days.

#### User warnings

Because of the possibility of contact dermatitis and irritation of the skin, eyes or respiratory tract, direct contact during administration should be avoided.

\* Used references can be requested on demand.  
\* Pharmasin® brochure is following the authorized EU SPC.

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