



## Cocci Phyt

**Improving Gastrointestinal Function & Infections and Anticoccidial**

**Suitable for Equine**

**Premix**

### Ingredients:

- Quercus infectoria (Oak Gall) Extract
- Artemisia annua Extract
- Allium sativum (Garlic) Extract

Maintaining the health of the digestive system of horses is very important because it provides the growth, survival and energy required by the horse. One of the common gastrointestinal disorders in horses is diarrhea, which can occur due to various factors. One of the causes of diarrhea in horses is infection with Clostridium species, which can cause fatal enteritis. Among the other causes of diarrhea is coccidiosis (rare), which is caused by infection with the Eimeria protozoan parasite. On the other hand, horses are very sensitive to ionophore antibiotics (especially monensin) and the use of these compounds in horses is prohibited.

Cocci Phyt is a herbal medicine which is used against bacterial and parasitic infections of the gastrointestinal tract. Cocci Phyt can completely be replaced with medicines such as toltrazuril (coccidiocidal drug) in horses. Due to its herbal and safe formulation, Coccy Phyt medicine can also be used during milking, and due to the presence of several effective and active compounds, it does not cause any drug resistance.

### **Mechanism of action:**

The formulation of Coccy Phyt is completely based on the active compounds of oak gall, garlic and artemisia plants. Artemisinin is the most important active compound in Artemisia, which has strong anti-parasitic effects. Artemisinin causes the formation of free radicals through the destruction of peroxide complexes and thus causes oxidative stress in the parasite. These radicals directly inhibit sporulation and prevent the formation of the parasite's cell wall. Artemisinin is a sarco-endoplasmic reticulum inhibitor and causes disturbance in calcium ion homeostasis and as a result disturbs cellular pathways regulated by this ion such as protein secretion, motility, cell division and differentiation. As a result, artemisinin reduces the shedding of parasite oocysts from the animal and also reduces sporulation in the excreted oocysts. Reducing oocyst shedding leads to controlling the disease and preventing its transmission between animals. In addition, the *Artemisia annua* plant contains compounds that help maintaining the natural microflora of the gastrointestinal tract and thus increase nitrogen absorption. Active ingredients of *Artemisia* have antibacterial activity.

Tannin is the most important active compound of oak gall, which penetrates the wall of oocysts and causes inactivation of enzymes responsible for sporulation. In addition, tannins have antimicrobial, antioxidant and anti-inflammatory properties and therefore improve the environment of the digestive system. By forming a complex with proteins, tannins remove them from the reach of the bacteria in the gastrointestinal tract so that they reach the intestinal environment safely and are absorbed by cells of the body. Tannins destroy bacteria by inhibiting extracellular enzymes, inhibiting the growth of microbes, directly affecting microbial metabolism, depriving microbes of metal ions and disrupting the bacterial cell wall. Also, tannin can reduce the risk of infection with *Strongyloides* parasites.

The sulfur containing compounds in garlic, such as allicin, have broad antimicrobial properties that can reduce the negative effects caused by microbial infections including clostridial infections. Allicin effectively inhibits *Eimeria* parasite sporulation. In general, Cocci Phyt is formulated in a way which these active compounds have the highest efficiency together and are safe at the same time.

### Cocci Phyt Indications:

- Prevention and treatment of bacterial infections (clostridium, etc.)
- Prevention and treatment of bacterial diarrhea
- Increasing the efficiency of consumed and passing protein
- Improving growth efficiency
- Reduction of protozoa population
- Reducing the population of gastrointestinal parasites such as strongyles
- Prevention of bloating
- Improving gastrointestinal function
- Prevention and treatment of coccidiosis



**Recommended dosage:**

3-5 g per case

**Storage Conditions:**

Store in a cool and dry place at 25°C and away from direct sunlight.

**Drug Interaction:**

Compatible with all kinds of commonly used medicines, additives and vaccines.

There is no risk of resistance.

**Cautions:**

Keep out of reach of children

**Packaging:**

25 kg packets

**Expiration Date:**

24 months from production date



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