

AgraCure®

Gut health management

The different working mechanisms of AgraCure®



WHAT IS AGRACURE®?

AgraCure® is a 100% natural, antibiotic-free growth promoter with antibacterial, anticoccidial, anti-inflammatory, antioxidant and immune-stimulating effects to optimize intestinal health.

44%

Lower anti-coccidia index

8,9%

Lower feed conversion in poultry

STRONG

Antibacterial effect

FAST

Increased feed intake during disease

7,0%

Lower feed conversion in piglets

BOOSTS

Animal resistance in multiple ways

ANTIBACTERIAL EFFECTS

AgraCure® contains more than 100 active components, each with their own antibacterial effect. When one effect is not working, another takes over, giving pathogens no chance to develop resistance.

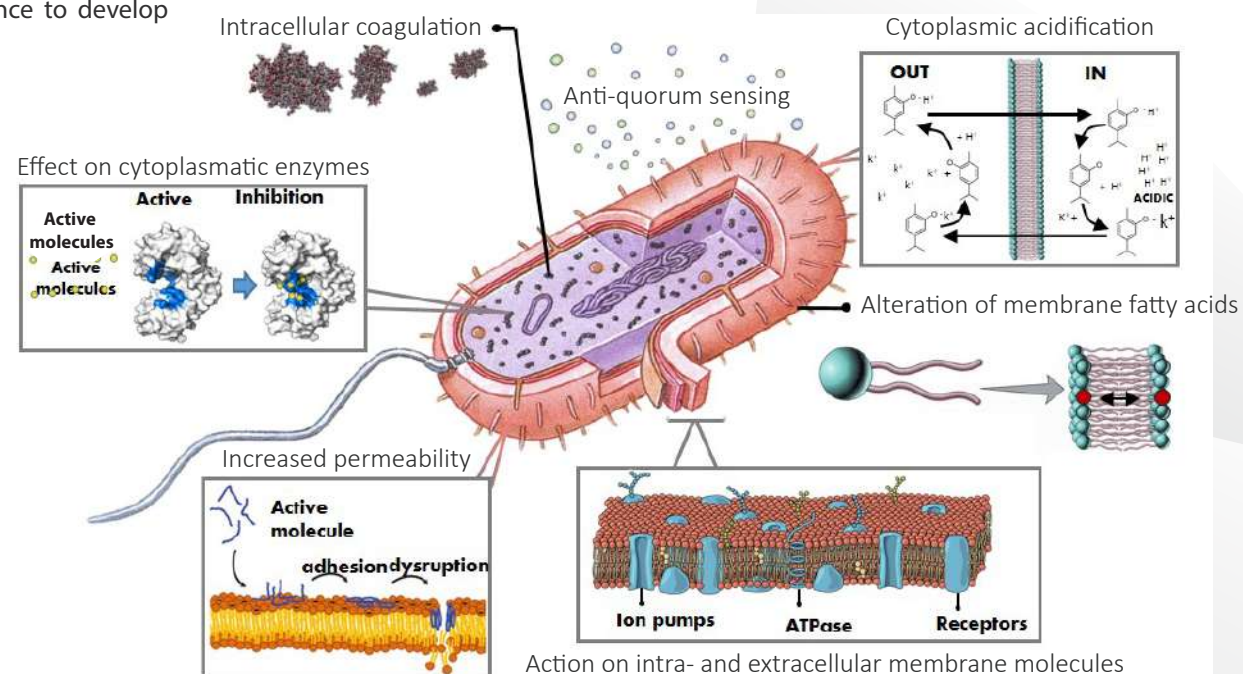
A distinction is made between direct and indirect effects:

Direct effects:

- Toxic intracellular coagulation
- Hydrogen ions are released inside the cell: acidification of the cytoplasm
- Shifting of membrane phospholipids: deregularization of membrane polarity
- Interaction with cytoplasm and membrane proteins
- Hydrophobic molecules integrate into the cell wall and ensure cell leakage

Indirect effects:

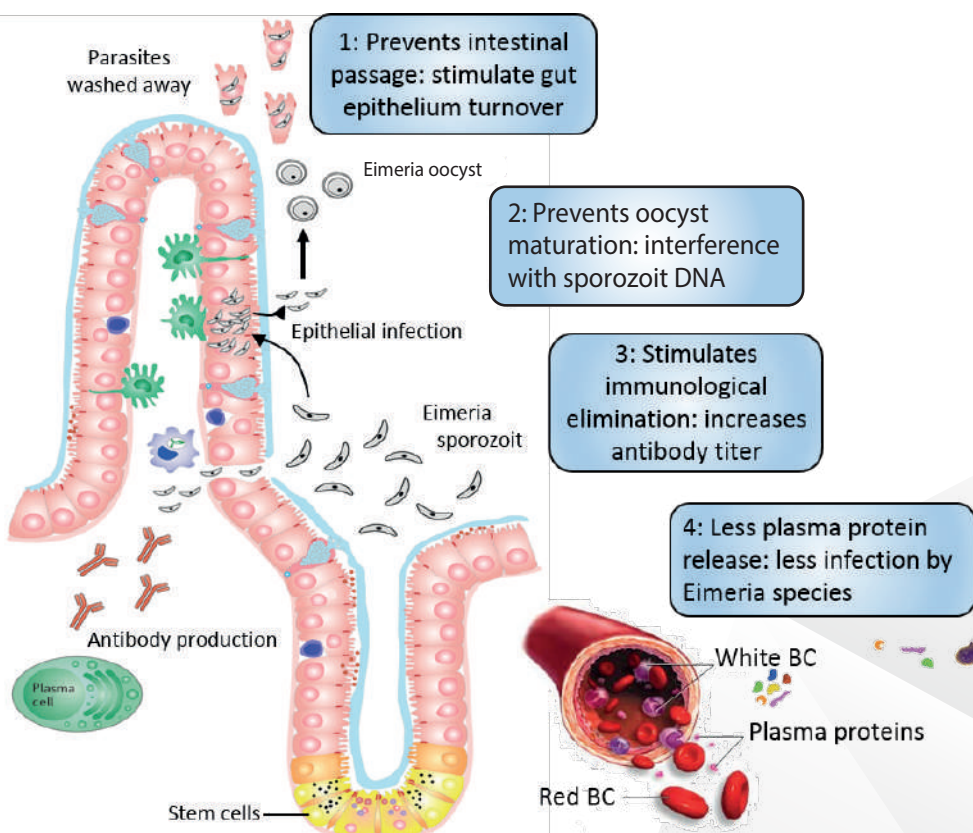
- Anti-quorum sensing: no communication between pathogenic bacteria
- DNA interactions: e.g. less flagellin production (lower mobility of the pathogen)



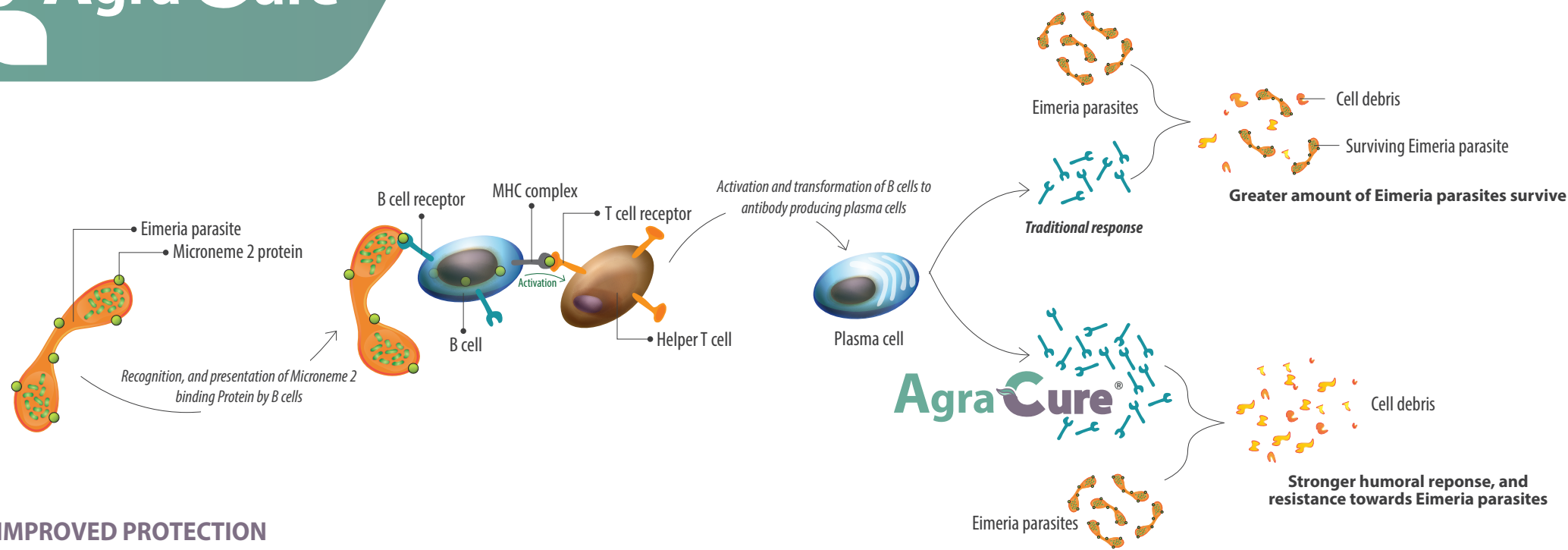
ANTI-PARASITIC EFFECTS

AgraCure® prevents intestinal infection, and stimulates the immunological elimination of various parasites, including Eimeria spp. This happens in various ways:

- Stimulation of intestinal stem cells, resulting in fast renewal of the intestinal epithelium: this means that damaged intestinal wall cells are replaced more quickly and parasites do not have time to penetrate. They are actually "washed away".
- Interaction with DNA of sporozoites ensures that parasites cannot mature to the oocysts stage and therefore cannot survive externally.
- Fewer secondary infections because of lower plasma protein (acts as an attractant for other pathogens e.g. salmonella and clostridium) release from damaged intestinal cells.



agraplan
Animal Health Products

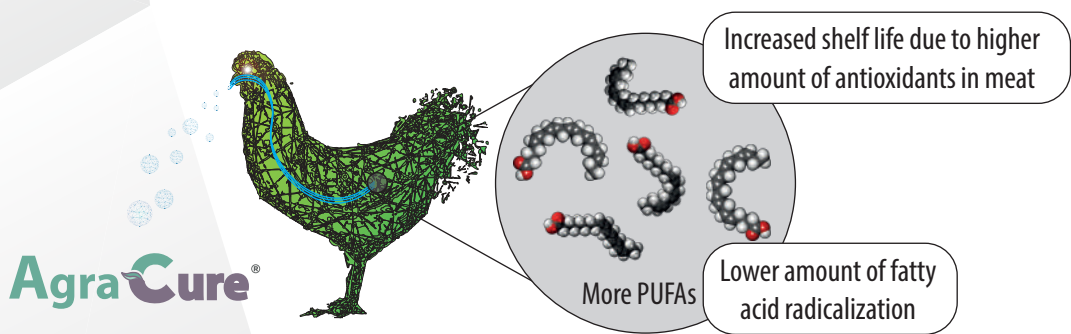
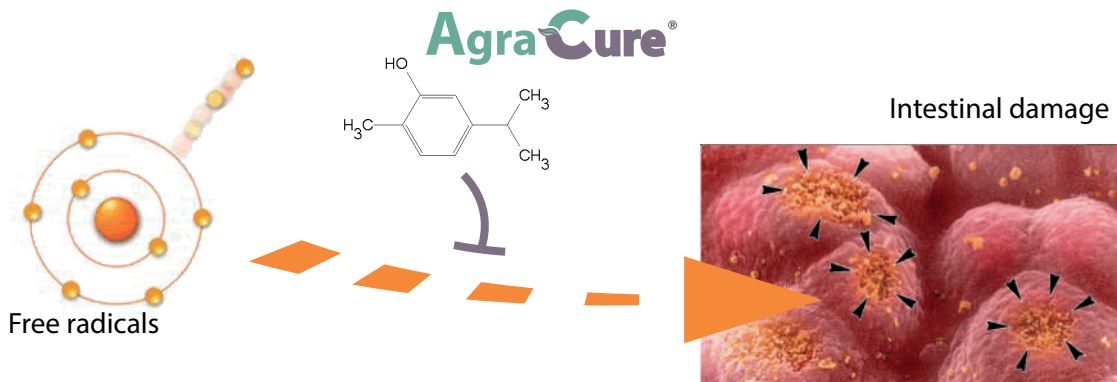


IMPROVED PROTECTION
Due to an improved immune response

AgraCure® provides specific natural tannins that boost the humoral immune response towards Eimeria parasites and other pathogens. These tannins trigger the production of antibodies against Microneme 2 proteins (that play an important role in binding Eimeria parasites to intestinal wall). The increase in antibodies results in a better recognition and elimination of Eimeria parasites via "natural killer cells" and the complement system.

Due to less free radicals and inflammation

Due to their high reactivity, free radicals (in feed and drinking water) cause damage to the phospholipid membrane of intestinal cells. This results in damage to the intestinal wall, making it vulnerable for infection and less effective in nutrient absorption. Secondly, damaged phospholipids act as a trigger for the inflammatory response, which again results in more intestinal damage. AgraCure® contains a high content of phenols and polyphenols that act as antioxidants, able to neutralize the harmful free radicals. In this way AgraCure® ensures better intestinal integrity, nutrient absorption and reduces inflammation.



In addition to the protective effect of AgraCure® on the intestines, the natural antioxidants also ensure an improved internal oxidative status. After uptake of the antioxidants in the bloodstream, they provide additional health benefits inside the body. They are able to lower radicalization of sensitive fatty acids (especially poly unsaturated fatty acids), resulting in an improved general health status and increased meat shelf life.

TREATMENT SCHEDULE AGRACURE®

Liquid - drinking water

Treatment during disease or periods of stress
In all situations of altered intestinal health: 500ml AgraCure® per 1000L drinking water for 2 to 4 days