# EUCLORIS – TECHNICAL DATA SHEET

## *Enterococcus faecium*

It is a probiotic strain that colonises the digestive tract and that stabilises the existing intestinal flora, and therefore it restores the **protection** against pathogens.[1,2] *Enterococcus faecium* is a lactic acid bacterium characterised by the secretion of lactic acid, producing a decrease in pH in its surroundings. *In vitro* studies show that *E. faecium* can survive at a very low pH.[3,4] The production of lactic acid by *E. faecium* reduces the pH, and this helps in the absorption of ions such as calcium and magnesium, and it hinders the growth of opportunistic microorganisms, because they prefer more alkaline environments.
Likewise, this probiotic strengthens the activity of the **immune** system, facilitating its response against infections. The microbiota helps to digest nutrients for their optimal absorption through the enterocytes.[5]
Although some microorganisms are unable to survive throughout the digestive process, the fact that Eucloris contains one of the highest concentrations in probiotics ensures that a sufficient amount of *E. faecium* reaches the gastrointestinal tract, especially the colon, where most of the microbiota lives.

## Fructooligosaccharides

They are an excellent **prebiotic**, consisting of fibres that will feed the healthy bacteria in the intestine. They will help in the establishment and development of the *E. faecium* contained in Eucloris, as well as to the growth of the beneficial microbiota that the pet already has in its organism.[6]

## Brewer's yeast

It is the **prebiotic** par excellence. It has an **immunomodulatory** activity thanks to its contents in β-glucans. It is a rich source of nutrients, among which we must highlight the **vitamin B complex**, that favours the growth of the healthy **microbiota** and optimises the functioning of the **immune system**.[7–9]

## Fennel extract (*Foeniculum vulgare*)

It is a plant widely used to favour the digestive function. It can be of help in the case of colics, because it reduces and prevents **spasms** in the intestine, as well as increasing the **peristaltic** movements. Like aniseed, it is a great remedy to reduce gases and **flatulences**. Likewise, it has shown **antimicrobial** properties, especially against pathogenic bacteria and fungi, helping to reduce the intensity of diarrhoeas.[10]

## Chamomile extract (*Matricaria recutita*)

Dry extract with anti-inflammatory and spasmolytic activity that relieves the altered digestive tract. The mucilages that it contains help to repair the epithelial layer. Due to its carminative properties, it helps to reduce gases and flatulences. It has shown the ability to block diarrhoea and the oxidative stress that it causes.[11]

## Lion's mane extract (Hericium erinaceus)

It is the mushroom of choice in cases of disorders of the digestive system, because it promotes the regeneration of the intestinal **mucosa**. Its high content in ßglucans (30% polysaccharides in our 10:1 extract), exerts a powerful **immunomodulatory** activity,

strengthening the defences associated to the intestine. The lion's mane indigestible fibres act as a **prebiotic**, promoting the growth of the beneficial intestinal microbiota. It is also an excellent source of **nutrients**: K, Zn, Fe, Ge, Se, P and all the essential amino acids.[12]

## Glutamic acid

Diarrhoeas, allergies, age… Different factors alter the epithelial barrier and cause the inflammation of the intestinal mucosa. Glutamic acid is the substrate for the *de novo* synthesis of glutamine, an amino acid that supports the regeneration of the intestinal villi. It is used as an energy source by the enterocytes and the cells of the immune system, such as lymphocytes and macrophages. It also has an antiinflammatory activity and it is necessary for the synthesis of IgA.

## References


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