



As you know Daavision B.V. was the first company producing a pure form of lauric acid, which stays stable at low temperatures as a free flowing powder. The lauric acid was combined with GML90 (glycerol mono laurate with a purity of 90%). Due to the positive effect of, amongst others, lauric acid against gram positive bacteria Daavision created an entire range based on this concept; the Daafit range.

The Daafit range exists of three different products:

- Daafit
- Daafit Plus
- Daafit Aqua

Below you will find an overview of the different applications of these three products, starting with Daafit.

- Daafit is being used by feed mills and bigger farms who are capable of producing their own feed. In the poultry sector Daafit is mainly applied on farms with problems with gram positive bacteria such as *Enterococcus faecium* (broilers), *Clostridium* (layer hens) and as a general support of the intestinal health. Because it is a rather expensive product we see that the Daafit is added only in specific periods of time during the production round. For example, we know that *Enterococcus faecium* is seen amongst the broilers between 3-4 weeks of age. The entire digestion of the chickens are working on full speed at that moment and any disbalance in the intestinal tract will cause major problems. The best way to prevent this, is to support the intestinal health by adding Daafit at 1,5 kilograms per ton of feed. You always have the option to increase the dosage when the problems don't completely disappear.

The moment of applying Daafit can differ from one farm to another, depending on the specific problem and depending on the species (broiler, layer hen, etc.).

- Daafit plus has a double purpose; besides the fact that it contains MCFA's which are effective against the gram positive bacteria, it also contains short chain organic acids. These organic acids can lower the pH and are really effective against the gram negative bacteria, like for example *Salmonella* and *E. coli* is a good example in the poultry industry.

Most often we see a combination of *E. coli* and for instance necrotic enteritis or *Clostridium*. In these cases, when a farmer deals with both gram negative and gram positive bacteria Daafit Plus is the right product to apply.

When the farmer has a really high bacteria pressure and severe problems the dosage should be higher than the standard dosage. We recommend a dosage of 3 kg per ton

of feed. When it is used to support the intestinal health a dosage around 2 kg per ton should be enough.

- Daafit Aqua is a liquid product which, besides MCFA's and GML90, contains butyric acid (C4) and is administered in the drinking water. C4 is known for its positive effect on the tight junctions. We all know that there is a big amount of all kinds of bacteria in the lumen of the intestine. By supporting the tight junctions you lower the risk of bacteria passing the intestinal wall and entering the bloodstream.

Furthermore, there should be a balance between the good and the bad bacteria. Applying Daafit Aqua in the drinking water (or Daafit (Plus) in the feed) will maintain this equilibrium.

Daafit Aqua is often applied by veterinarians to support the digestion of the broilers at the peak moments, so when the feed intake is really high and the growth is at its maximum.

Besides that, Daafit Aqua can be administered to layer hens as well. We often see an increase in technical results.

When using Daafit Aqua, you should start at a dosage of 1 kilogram per 1000 litre drinking water. When the water intake remains stable and the problems are still there, you can increase to dosage to 1,5 kg to a maximum of 2,0 kilogram per 1000 litre of drinking water.

Daafit Aqua is a really nice product but there is not one standard protocol to apply it. The consultant at the farm should follow up the situation and adjust the dosage when needed.