

Dear Reader,

Here it is: the 22<sup>nd</sup> edition of our newsletter.

After a somewhat quiet summer we are all ready to get back to business in Q3 and Q4.

In our latest newsletter you will find:

- The latest results of Bact-Aid™ tests
- Our visit to Dietaxion, our Pidolin® PCa supplier
- The effect of Tox-Aid® on the mycotoxin Enniatin
- In our news section you will read about Monolaurin, Nutri-C® and the authorisation of animal fats in cattle feed in Germany.

The feed sector is always in motion.

Best regards,

The E.F.S.-team

## » Tox-Aid®: The deactivation of Enniatin B

In line with our motto 'inspired by nature, scientifically proven' mycotoxin Enniatin B1 has been analysed by means of *in vitro* tests.

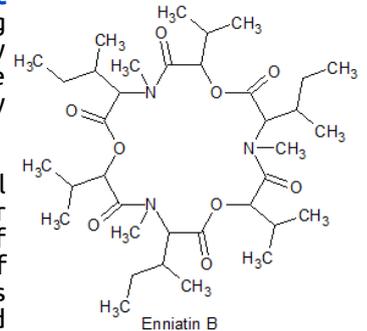
**Enniatins** are a group of mycotoxins that is relatively unknown, but increasingly occurs in Western Europe. Research by Ghent University shows that 79% of the grain samples tested contain Enniatin. Enniatin is generated by the fungus *Fusarium* and can also occur in bread and breakfast cereals.

Enniatins have a cyclic structure and are **toxic** due to their ionophore qualities (transporting ions through cell membranes). This quality and the quality to pass the cell wall allow the mycotoxin to transport an abnormal quantity of cations in the cell.

Enniatins bind cations, causing an abnormal quantity of cations to enter the cell together with the Enniatins. The lipophilic nature of Enniatin can also cause an **accumulation** of mycotoxins in the body. In some cases Enniatin can be found in **poultry meat** and **eggs**.

In addition to these qualities, Enniatin works synergistically with DON.

*In-Vitro* research shows that Tox-Aid® combats Enniatin B1 very efficiently. Tox-Aid® **deactivates 99%** of this harmful mycotoxin.



## » News section

### • Monolaurin

Monolaurin by E.F.S. contains at least 30% lauric acid on a starch-based carrier. Monolaurin does not clump and remains free flowing! Interested? Please contact the E.F.S.-sales team.



### • Salmon oil prices

The end of Q2 saw a fall in prices after a long period of rising prices. E.F.S. is expecting a price increase. For current prices, please contact E.F.S.

### • Germany: animal fats re-authorised

As of 6 July 2017 the German government has lifted the ban on animal fats (**Category 3 material**) in ruminant feed.

### • LinkedIn: Follow us on [LinkedIn](#) now!

### • Explosive properties Tox-Aid®:

The explosive properties of Tox-Aid® have been determined on behalf of E.F.S. It has been ascertained that some dust generation can occur while using Tox-Aid® and that Tox-Aid® has a high ignition temperature. The test results have been included in the MSDS. A copy is available upon request.

### • Organic & E.F.S.

Did you know that some E.F.S. products can be used for organic purposes? Brocacef® and Tox-Aid® can be used in organic feeds without any problems.

### • Nutri-C®: for tastier silage

As the end of summer is nearing, it is time to get the first maize into the pits/silos. Research shows that the use of Nutri-C® improves maize silage fermentation, reduces heat and boosts silage flavour.

### • Stabil-Aid®: formaldehyde

After the repeal of biocide directive PT20 on 1 July 2015 the EU has not yet decided on the use of formaldehyde. For the time being no decision has been taken on either a ban or an authorisation. At present it is not on the EU agenda. The decision on formaldehyde is expected to be included on the agenda after the summer.

For further information, please contact the E.F.S.- sales team.

### • Trade fair LIV Hardenberg

From 24 to 26 October we will take part in LIV Hardenberg. We hope to meet you there.



## » Bact-Aid™

In Belgium, among other countries, formaldehyde has been banned for quite some time now, but it is still unknown when the new legislation will come into force in the rest of Europe. Bact-Aid™ has been especially developed by E.F.S. to ensure a formaldehyde free decontamination of your feeds and raw materials. After the repeal of biocide directive PT20 this ingenious alternative has been developed and is used by many of our customers.

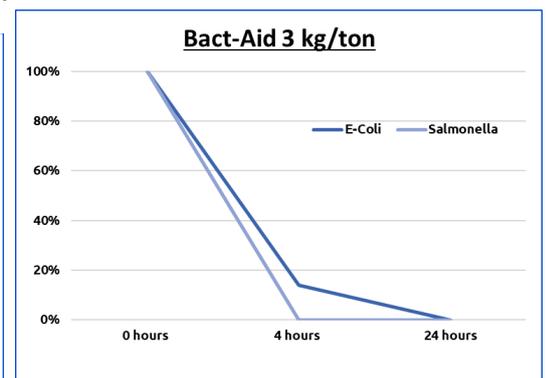
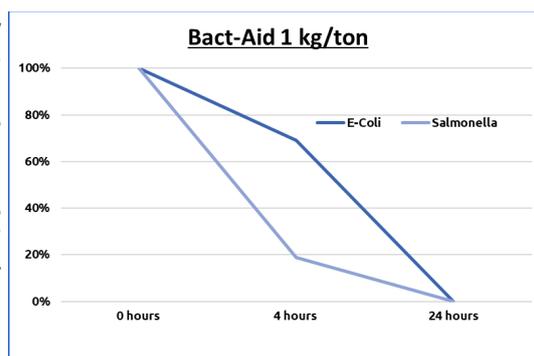
The inventive mixture of, among others, aldehydes which also occur in nature with other components, allows E.F.S. to clear feeds and raw materials of pathogens.

Bact-Aid™ is supplied as part of a **concept**. 'Decontamination does not only entail the addition of a product. It is very important that the **correct dose point** is ascertained and that the method used suits the customer. This concept is developed in consultation with the client. This approach ensures the best success factor.' according to Bert van Bremen.

### Research results

Based on 'Inspired by nature, scientifically proven' research has been carried out into the **effectiveness** of Bact-Aid™. Various bacteria were tested on laboratory-scale. In this newsletter we will discuss the results of Salmonella and E-coli. The tests were carried out with a concentration of 10<sup>5</sup> CFU. Research shows that doses of **1 and 3 kg per ton** are more than adequate to kill

Salmonella and E. Coli. The graphs below schematically show the course of the killing process. After 24 hours Salmonella and E. Coli were fully killed. Interested to find out if Bact-Aid™ is suitable for your company? Please contact the E.F.S.-sales team.



## » E.F.S. abroad



Mid-July we visited our supplier Dietaxion. This company is a specialist in the field of calcium and Pidolin® PCa. E.F.S.-Holland has been Benelux agent for Pidolin® PCa since 2013.

The purpose of our trip to western France was to **discuss** the latest insights into **Pidolin® PCa** and to exchange practical experiences with other distributors. During our trip we visited, among others, an independent egg packing centre, some battery cage farms and free range farms.

All companies we visited use Pidolin® PCa in different phases. For **laying hens** Pidolin® PCa is best used as follows:  
 500 g/ton the first 28 breeding days  
 300 g/ton two weeks before point of lay  
 300 g/ton from the moment the egg shell quality reduces (different per breed).

Pidolin® PCa is not only suitable for poultry but also for **pigs** and **cattle** for the benefit of, among others, bone formation and a smoother birth.



In October the Dietaxion **specialist** will visit us again to present the latest insights. Are you interested in a visit? Please let us know.

## » IBCs

**E.F.S. is asked on a regular basis: 'do we receive reimbursement for returning empty IBCs?'**

E.F.S. supplies its liquid products including the IBC. This means that after purchase you are the IBC's owner.

Are the IBCs no longer of use to you and would you like to contribute to the environment? Then you can register your IBCs with a recondition company.

**Janus Vaten** in Oosterhout is such a company. On the Janus Vaten [website](#) you will find more information about the options and acceptance requirements your IBCs need to meet.

Should you have any question about this, please contact the E.F.S.-team.

