

Press Release
Antony, 4 May 2022

Adisseo & Entobel join forces on alternative insect protein development

Adisseo and Entobel have agreed to initiate a R&D collaboration to better understand and enhance insect rearing performance and the nutritional requirement of insects (BSF, Black Soldier Fly).

Adisseo and Entobel have decided to enter into a collaboration to join their respective expertise and work on different axis.

By evaluating the interest and adaptation of the existing solutions they aim to improve production of insect's meal, focused on the performance of the insects and the quality of this protein meal, prioritizing the way to control the ingredients used to feed insects, and their complementarities with the most important feed additives, like methionine and enzymes.

Adisseo, a world leader in animal nutrition, has a long and strong expertise. Adisseo has been publishing its animal nutritional requirement guides since the 80's years. The first famous one was Alimentation Equilibrée de Commentry Tables 1987, better known as "A.E.C. Tables". In 2003, it was renamed as e-Rhodimet Nutrition Guide and focused on animals amino acids requirement. A new version issued in 2012 has being updated when relevant data are recognized by the scientific community.

Currently, the higher requirement of sustainable proteins sources for feed and food, in a finite world boundary, insects are a promising nutritional alternative since they are an excellent bio converter of waste and co-products inedible for human or livestock.

The success of insect production and its adoption by our customers will be depending on its competitiveness, volume availability and its quality over time.

For that, there is a need for transformation in the rearing process based on optimal insect's growth performance and producing a meal and oil with good nutritional value, whatever the type and quality of the raw material needed to feed insects.

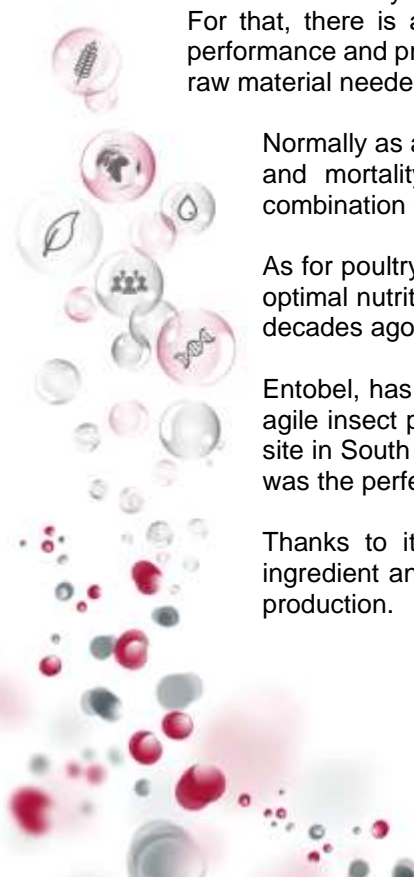
Normally as a natural bioconverter, insects can use all type of substrate to grow, with different FCR and mortality. This variability of substrates will require specific knowledge and a different combination of additives.

As for poultry, the main factors of competitiveness have been genetics, environmental conditions, and optimal nutrition. We can consider that insect today is at the same stage than poultry nutrition was decades ago, and a lot of improvement are yet to come.

Entobel, has a long expertise in insect production and processing, one of the most advanced and agile insect players in Asia with more than 2 years of stable production track record on its current site in South Vietnam. Entobel demonstrates already great stability of its feed formulation and thus was the perfect partner to optimize further with Adisseo additives portfolio.

Thanks to its expertise in animal nutrition, amino acid requirement, animal digestibility, NIR ingredient analysis, Adisseo is the perfect partner to improve competitiveness on Insect meal and oil production.

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About Adisseo

Adisseo is one of the world's leading experts in feed additives.

The group relies on its 8 research centers and its production sites based in Europe, USA, China and Thailand to design, produce and market nutritional solutions for sustainable animal feed.

With more than 2,537 employees, it serves around 3,900 customers in over 110 different countries through its global distribution network.

In 2021, Adisseo achieved a turnover of 1.69 billion euros.

Adisseo is one of the main subsidiaries of China National BlueStar, leader in the Chinese chemical industry with nearly 19,920 employees and a turnover of 9.4 billion euros.

Adisseo is listed on the Shanghai Stock Exchange.

Corporate website: www.adisseo.com

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About Entobel

Entobel is a Singapore based insect producer and processor with main operating activities currently based in Vietnam.

Entobel was founded in 2013 and established its first commercial site in 2019 after 6 years of pilot and demo scale R&D activities. For last 3 years, Entobel has been leading in the Region both in terms of volume produced and overall competitiveness.

Entobel products are already currently used in shrimp feed , fish feed, poultry feed, pig feed and petfood formulations globally.

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