

Two companies form alternative insect protein development pact

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).

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, prioritising the way to control the ingredients used to feed insects, and their complementarities with the most important feed additives, like methionine and enzymes.

Adisseo has been publishing its animal nutritional requirement guides since the 1980s. The first famous one was Alimentation Equilibrée de Commentry Tables 1987, or the 'AEC Tables' as they are better known.

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 recognised 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 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 bio-converter, 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 also consider that the stage that insects are today is the same as poultry nutrition was decades ago, and there are a lot of improvements still 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 two years of stable production track record on its current site in South Vietnam.

The company's feed formulation also already demonstrates great stability and thus, was an ideal partner to optimise this further with Adisseo additives portfolio.