



## MARKET NEWS

### Insects: a viable protein alternative in animal feed industry?

**Insect protein** could offer poultry producers a **viable alternative protein**, if regulatory and perception problems can be overcome, as delegates of the Insects as Feed and Food conference discovered in early April.



Before the beginning of the year there was no insect-specific regulation and **insects** were not specifically mentioned as a "novel food", however, the introduction of the EU Novel Foods Regulation on 1 January 2018, means there is now regulation across all novel foods, including **insects**.

#### **Insects** are:

- Being high in protein – suitable insects are around 40-60% crude protein
- Having a high quality amino acid profile – better than vegetable protein sources
- Being high in micro-nutrients

#### MORE ON SOURCE:

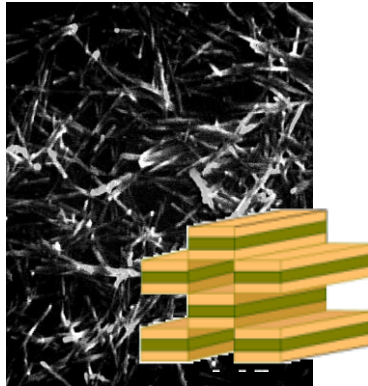
<https://www.poultryworld.net/Health/Articles/2018/5/Insects-as-food-and-feed--the-legal-perspective-289064E/>

## #TOLSAFUNFACT

### DID YOU KNOW..

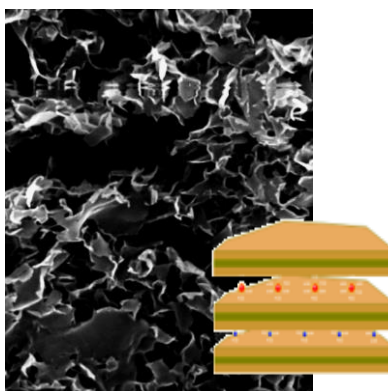
...the difference between bentonite clay and sepiolite clay when looked from a microscope perspective?

#### Sepiolite



In sepiolite the extension of the silicate basic unit is limited in one of the space directions and this fact creates a discontinuity that is the origin of the **acicular shape**.

#### Bentonite



Bentonite blocks have a **lamellar morphology** and are normally arranged forming multiple stacks of many layers.

## LABORATORY

### Our own Animal Feed laboratory process more than 400 analysis every year

As mycotoxins are toxic and dangerous substances, Tolsa's laboratory has a high biological safety system which allows mycotoxins analysis and ensures the health of workers.



**Image:** Tolsa's technician doing mycotoxins analysis completely protected

In Tolsa's Lab we measure the binding capacity of different mycotoxin binders by doing analysis at different pHs, simulating the gastrointestinal tract of the animals. Today we study the binding capacity for Aflatoxin, Fumonisin and Zearalenone **by Elisa Test**, and soon we will start with some other.

