



Aquatic Feed Innovation

New Recipe with AgarRA®

Aquatic feed plays an essential role in aquaculture as it affects the growth of the fish. Apart from its nutrient content, it is also important to have feed with a texture the animals find palatable. Recently, the Java Biocolloid R&D team has formulated an aquatic feed using agarRA® series as a binding agent, beef and spinach that matches the required nutritional specifications. The addition of agarRA® shows great results and, thanks to its high water binding capacity, it prevents the ingredients from dissolving in the water. This property is necessary for water-stability and to keep it from turning the water cloudy. A study also shows that after two weeks of storage in the freezer, the product is still able to maintain its textural quality.

[Contact us for the recipe](#)



PhytaFIBER® in Bread

New Gluten-Free Solution

One of the main problems associated with gluten-free bread is having a good structure. Hydrocolloids and gums are normally added, to improve gas retention and water absorbing characteristics. Recent studies by the Java Biocolloid R&D team showed that *Gracilaria verrucosa* (newly named *Gracilariopsis longissima*) seaweed powder type phytaFIBER® improved the dough characteristic and strengthened the final bread structure with more evenly distributed air bubbles. In addition to that, phytaFIBER® also increases the amount of dietary fiber, improving the fibre intake of coeliac patients, which is generally quite low due to their grain-free diet.

[Contact us for the recipe](#)

Derma-Cosmetic Prototypes

Natural Biopolymers

The partnership between Java Biocolloid and the academic spin-off, BiopoLife, is yielding great results in the field of derma-cosmetics. The Java Biocolloid-BiopoLife research team has developed formulations for the cosmeceutical industry based on Dermoglucosamine L®, a chitosan-based biopolymer functionalised with oligosaccharide branches and produced with proprietary technology and Molecular Agarobiose, a polysaccharide derived from the purification of the agar molecule with a process that allows for incredibly fine control of the characteristics of the polymer.

Dermoglucosamine L® has proven biocompatibility with eukaryotic cell and polyelectrolytes, creating a viscous water gel that, in combination with Molecular Agarobiose, creates a moisturising and filming product with protective capacity towards epithelial cells.

The formulations that have been developed include body creams, moisturising gels and hydrating serums and have all shown great synergy with other active ingredients such as UV screening compounds, anti-oxidant agents and many more.

Moreover, these products have undergone preliminary panel tests, whose results have shown that the prototypes have been received extremely well by the participants.

[Read more](#)

