



SUSTAINABLE & TRACEABLE SOLUTION

An innovative approach to meet the protein challenge faced by the fast growing aquaculture industry



Why insect-based ingredients offer an alternative solution to aquafeed?

Nutritious

- Rich in protein with high-quality amino acids & nutrients
- Presence of Lauric acid (Medium chain fatty acids with antimicrobial effects) & antimicrobial peptides
- Highly digestible and palatable

Sustainable & Resource-Efficient

- Circular economy approach through 'upcycling' of nutrients
- Farmed with zero waste generated
- Low carbon footprint, less agricultural land & water usage
- Contribute to fight against climate change & protect biodiversity



Scan to contact us!



Made of Black Soldier Fly

- Reliable & traceable source of protein
- Sustainably & consistently produced under controlled conditions
- Natural nutrients for aquafeed without any impact on marine resources

How to use?

entomeal™ entolipid

Insect-Based Functional Ingredients

Insects are part of the natural diet of freshwater and marine fish, especially in the juvenile stage.

Our study on shrimp has shown that Entolipid together with Entomeal™ has a positive impact on:



Good Performance

Entomeal™ combined with Entolipid shown higher body weight (+ 25%) in shrimp



Feed Efficiency

Entomeal™ together with Entolipid has improved feed efficiency rate by -24%



Immunity

Entomeal™ and Entolipid supplementation significantly increase total hemocyte count and prophenoloxidase activity which play an important role in immune function



Disease Resistance

Entomeal™ and Entolipid have shown a better survival after challenge against *Vibrio Parahaemolyticus* (7 days)



Digestibility

Good absorption of all nutrients

Studies show that with a small inclusion rate of insect-protein, it is sufficient to achieve their functional properties for aquatic animals. It can be used in premium feeds for broodstock, juveniles and high-value species in particular.

Fish & Shrimp recommended inclusion:
Up to 10% of Entomeal™ & up to 2% of Entolipid in the diet



Scan QR code for Shrimp study

entofood
A NEW SOURCE OF FEED
by **VEOLIA**

Our commitments



Scan to contact us for more information, or email us at bioconversion@veolia.com
Visit our website : www.veolia.com.sg/bioconversion

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