Sinyiml新一美

*Make Valuable Feed Additives!*

# MultiAA

**Fish & Shrimp Compound Attractant**




**Neons Ltd.**

**Address: H.M Plaza (11Th Floor), Plot # 34, Road # 02, Sector # 03, Uttara, Dhaka-1230.**

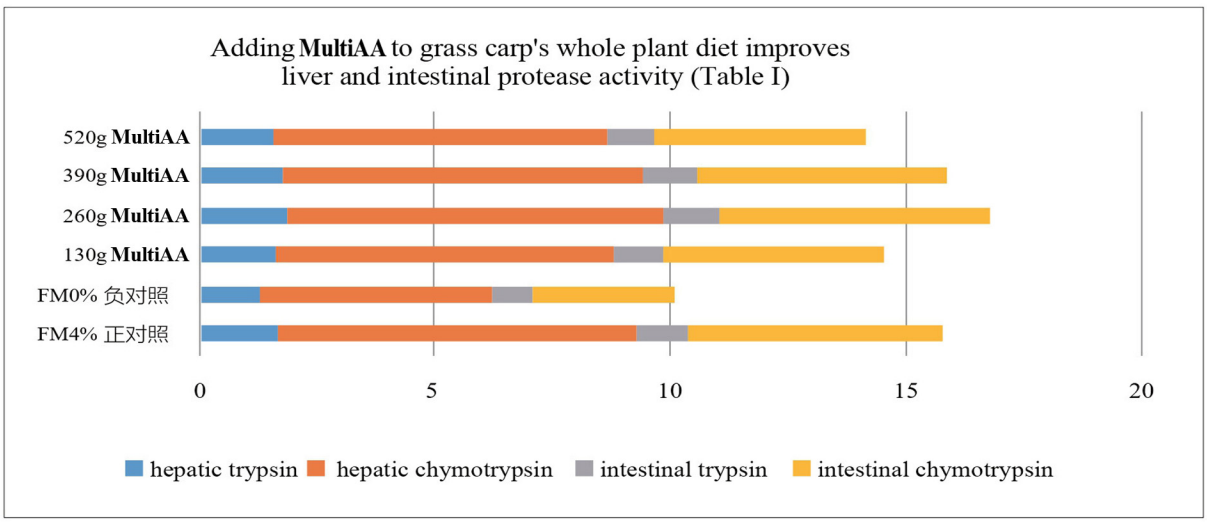
## Food attractants and their nature in promoting fish feeding

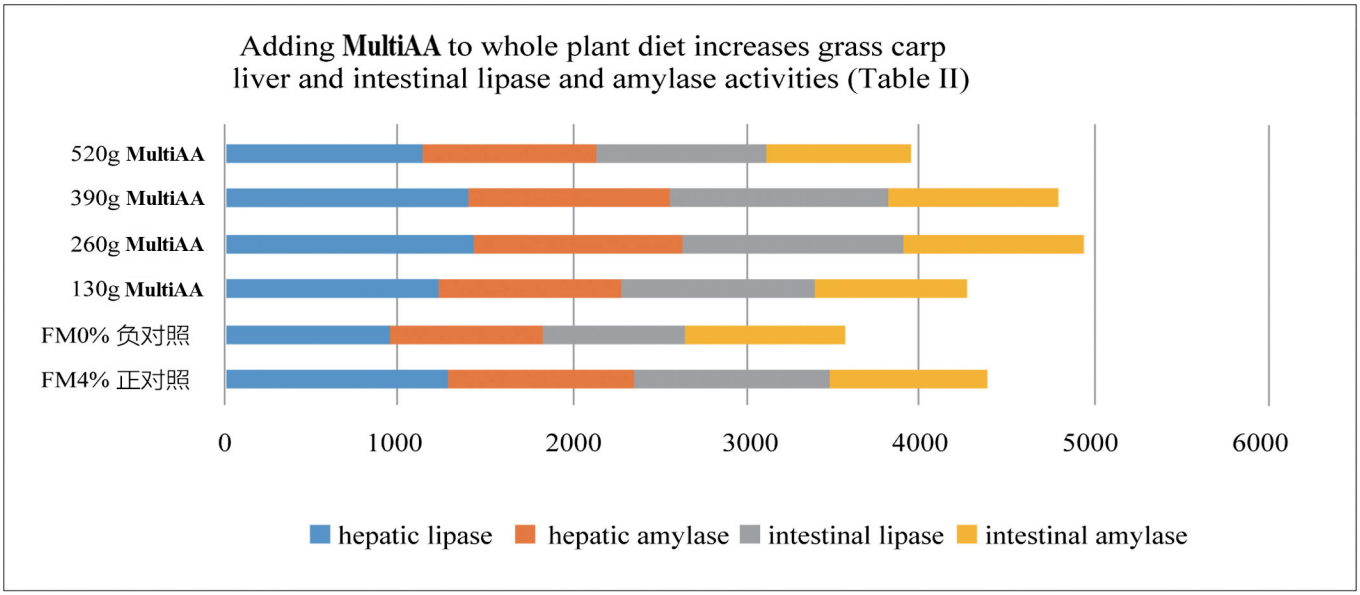
Fish have both olfactory and gustatory senses, and the most important influence on the intake of farmed fish is taste. Taste buds can be distributed throughout the fish body, including the mouth, lips, tongue, pharynx, esophagus, antennae, gills, fins, head, tail, and the body surface, and the taste receptors of crustaceans are concentrated on the antennal setae. The sense of smell is involved in food localization. The sense of smell is relatively unimportant for farmed fish. Both smell and taste are stimulated by chemicals that are sensed by cells (Fig. 1)

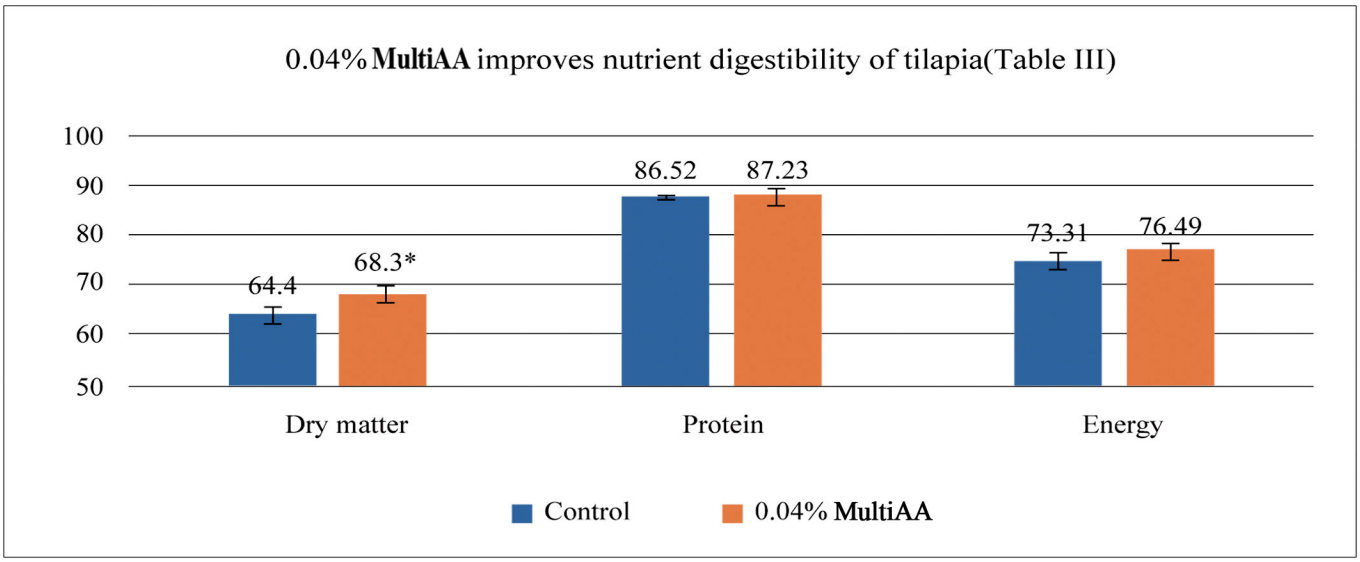


Contact between attractant substances diffusing in water and fish taste cells (Fig.1)

Unlike terrestrial animals that live in the air, fish and shrimp can only perceive substances dissolved in water, but not fat-soluble or air-diffused substances. Fish and shrimp food attractants are often small molecules, and only substantial contact between the receptor and the attractant molecule can initiate taste perception. In addition, the faster the diffusion of a particular small molecule in water, the greater the speed and intensity of enticement. After the binding of the food-inducing substance to the cellular receptors, the signal is transmitted by the nerves to the brain to form the sense of smell or taste. The brain sends out instructions to make the fish and shrimp feeding motivation, feeding increased, this is what we can see the effect of food attractants. What is more important is the effect inside the fish, that is, the food-inducing substances through the brain-intestinal axis to promote intestinal peristalsis and the secretion of digestive glands increase (Table I, Table II), for the digestion of food to be fully prepared, which lays the foundation for a higher digestibility and better bait coefficients (Table III).





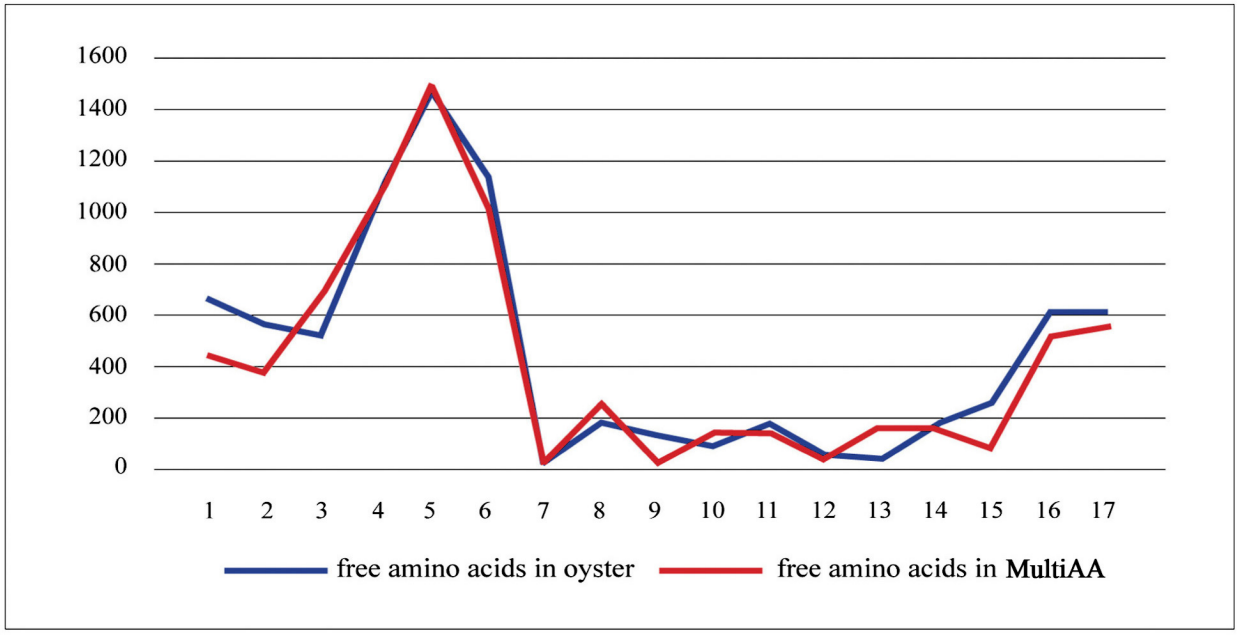




## Free amino acids attractants

Free amino acids are soluble components inherent in natural foods. Therefore, they are also one of the first known fish and shrimp food attractants, especially leucine, glycine, histidine, glutamic acid, ornithine, arginine, alanine, tyrosine, L-methionine, etc., which have significant food attractant effects. The daily use of various animal and plant extracts is mainly to use the free amino acid to induce food. The study found that the feeding promoting effect of animal and plant extracts after the removal of free amino acids was significantly reduced. The free amino acids in various food attractant creams and powders commonly used by feed enterprises are also mainly used. An important quality control index of these products, namely amino acid nitrogen, represents the content of free amino acids. The application of enzymolysis technology is also to increase the quantity of free amino acids and the diffusion rate in water. A large number of studies have shown that amino acid mixtures have synergistic additive effects on food attraction. The study found that the single glycine and glutamic acid had no feeding attraction effect on loach, and the single glycine even showed inhibitory effect, but the combination of the two had a strong feeding attraction effect.

## Oyster & MultiAA

Oysters are known as excellent natural bait. The reason is that there are abundant MultiAA and free amino acids in oysters. The free amino acids in oysters are mainly sweet amino acids and delicious amino acids. The research shows that the Hydrolization of Oyster Meal obviously enrich small peptides and free amino acids and stability of food attraction can be 9 - 16 times higher than that of single application of DMPT or single free amino acid. On the basis of fully understanding the physiological basis of smell and taste of fish and shrimp as well as the biochemical nature of food attractants, Sinyiml Company has developed the oyster fresh fish and shrimp compound food attractant products. This Product can highly restore the excellent flavor of the natural bait oyster, bringing more rich and lasting delicious experience to the fish and shrimp.




## Ingredients

- Hydrolysed Oyster Extract

## Specification

- Small Peptides: 40%
- Free amino acids: 4%
- Pepsin digestibility ≥ 98%
- Dispersing agent: 2%

## Recommended Dosages

- Herbivorous fish: 250-500gm/ton
- Omnivorous fish: 400-600gm/ton
- Carnivorous fish: 600-1200gm/ton
- Shrimp and crab: 1-2 kg/ton

## Attention

- Store in a sealed, dry, cool place
- In order to ensure the best use of the product, please use it as soon as possible after opening, and tie the pocket tightly in time if it is not used up
- Occasional agglomeration of the product, does not affect the use of the effect

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SINYIML Webchat

**Sichuan Sinyiml Biotechnology Co., Ltd.**

Address:Anxian Industrial Park(622651),Mianyang,Sichuan,China

Tel:0086-816-4627679 Mr. Tang:+86-187-2843-4114

Fax:0086-816-4627678 Email:sinyilm@sinyilm.com

www.sinyiml.com



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