THESIS INFORMATION
Thesis title: “STUDY ON NUTRITION REQUIREMENT AND PERFECTING FOR PRODUCTION OF HIGH QUALITY FEED SHRIMP (penaeus monodon)”
Mayor: The general Food Technology
Major code: 2.11.01
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Sumary of new findings of the thesis results:
- This is the first time in Vietnam that enzymes in the digestive cavity are studied in order to evaluate digestive ability of high quality feed shrimps. These results are significant scientific premises to study a new method in defining the nutrition demand of aquatic products.
- From the study, we found amylase enzyme and protease enzyme such as trypsin, chymotrypsin in digestive cavity of Vietnam high quality feed shrimps. Verifying the influence of lysine and arginine enzymes to digestive ability provides scientific premise to complete nutrition regimen for high quality feed shrimps.
- Using in vitro method to evaluate the digestive ability help us to choose appropriate materials and foods. This method also reduces the food testing process; therefore we no longer make too much testing on our animals.
- We also studied and applied some technologies to improve the materials used in producing shrimp feeding foods such as processing soy-bean by heating in order to resist the anti-nutritional factors trypsin and enhance the protein hydrolysis from 13,68% to 27,58%. Using protease enzyme to hydrolyze trash fishes into food can improve digestive and catching ability of high quality feed shrimps.
- Optimizing the nutrition ingredients to build appropriate shrimp feeding ration and balance the nutrition needs at low cost. We also use multipurpose optimizing method of restricted areas for the pellet technology in order to select a method that reduce loss in food processing and improve food quality.

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