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Development of Waterless Transportation Method of Tiger Prawn *Penaeus monodon*

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Waterless transportation of crustacean on marketing the aquaculture product was partly practice, especially on lobster and marine shrimps. However, less studies were done in this area. The present research was conducted to study and develop the method of waterless transportation of Tiger Prawn *Penaeus monodon*. The prawns were obtained from local farmers. The experiments were conducted to determine the best cooling method, the maximum weight loading and the maximum holding time for the prawn in waterless transportation. Shave wood was used as a moistened agent to ensure the wet air inside the styrofoam box. The prawns were packed in perforated plastic containers and loaded into the styrofoam box. Maximum weight of live prawn can be held by the biggest styrofoam box available in the Malaysian market was six kilogram. Ice was added into the styrofoam box. The pure oxygen was directly injected into the box and the box was sealed and wrapped using plastic film. The box was opened after certain hours and the survival rate were measured. The result shows that the best cooling method was slow cooling (two hour period). After twelve hours of transportation period, the survival rate of prawn was still remained above 80 percent. Based on the result, within twelve-hours period, the prawn can be transported all over Asian countries. Thus, the waterless transportation method was suggested practical to practice for transport the tiger prawn from point to another point.

Keywords: Waterless, Transportation, Tiger Prawn.

Biography:

Dr. Che Zulkifli bin Che Ismail. Served as Research Officer at Fisheries Research Institute FRI Pulau Sayak, Kota Kuala Muda, Kedah. My specialization is marine aquaculture in the areas of breeding technology, larval rearing, nursing the seeds and grow out. My job also includes providing technical advisory services to entrepreneurs in marine fish hatcheries and, breeders.