

Study on the effects of fresh and dried microalgal diets on essential fatty acids profile of cyclopoid copepod, *Acanthocyclops trajani* (Supplemental live food for freshwater fish larvae)

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Abstract

In this study, the effects of fresh and dried microalgal diets included *Scenedesmus obliquus* and *Spirulina maxima* compound, on essential fatty acids composition of cyclopoid copepod *Acanthocyclops trajani* were analyzed. This experiment was carried out by 2 treatments and 3 replicates in each one, during 30 days in September 2017. The type and amount of essential fatty acids in *A. trajani* body were influenced by diet form. The DHA (22: 6n-3) fatty acid amount was significantly ($3/75 \pm 1/08\%$) higher in copepoda fed on dried microalgae than live microalgae treatment. This study indicated the potential of dried microalgae to improve the nutritional value of copepoda as a supplemental live food for freshwater fish larvae.

Keywords : *Acanthocyclops trajani* . Essential fatty acids .DHA, Dried microalgae