

Poster

Adaptation of *Caenorhabditis elegans* to salt conditions for use in aquaculture



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ABSTRACT

Currently, aquaculture is a very important sector whose development is restricted for several factors among them to the need of *Artemia* to feed larvae fish. This product is harvested from natural lakes and its availability is a bottleneck. As an alternative, nematode could be used because of its ability of living in solid and liquid media. Furthermore, its culture is fast and based on bacteria. Therefore, it would reduce the price of the raw material.

In order to use nematodes for feeding fish larvae in aquaculture, an adaptation to different concentrations of salt in liquid medium has been made. We are developing a protocol to produce nematode using subproducts of the food industry to generate a pathogen-free food for fish larvae and at the same time reuse a product that otherwise would be disposable.

We have also tested the use of nematodes for vector of probiotic bacteria and other compounds.

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