

Application of outer membrane proteins and outer membrane vesicles in order to increasing the safety of aquatic animals

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Abstract

Given the importance of preventing and increasing safety, immune stimulants are now used as an alternative to Drug therapy systems. In studies on the gram-negative bacteria, it has been found that the membrane contains infectious agents that can increase the level of host immunity. In the present study, some studies have been carried out on the use of outer membrane vesicles and outer membrane proteins to enhance the safety of fish.

Keywords: outer membrane vesicles, outer membrane proteins, gram negative bacteria, immunity