

Studies on the Immunostimulatory Effect of Extract of Solanum Trilobatum and Ocimum Sanctum in Mystus Keletius

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Abstract : The freshwater catfish *Mystus keletius* was injected with the methanolic extract (water soluble fraction) of *Solanum trilobatum* and *Ocimum sanctum* alone and in combination in 3mg, 30mg, 300mg/Kg body weight. Serum was collected every 7 days interval. Fishes were fed with normal diet for the entire period of the experiment. The nonspecific immune response such as Total WBC count, phagocytic activity and serum antiprotease activity were observed. They were enhanced ($p < 0.05$) in fish injected with methanolic extract (water soluble fraction) *S. trilobatum* and *O. sanctum* alone and in combination than control group. Highest level of WBC count, phagocytic activity and serum antiprotease activity were confirmed when the fish injected with the mixed extract of 1:1 ratio of *S. trilobatum* and *O. sanctum* in 30mg/kg (b.w). The effect of mixture of methanolic extract of medicinal plant in *M. keletius* is highlighted.

Keywords : Immunology, Fish, Stimulatory effect, Medicinal plants

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