

EFFECTS OF T₃ ON CATALASE AND PROTEIN PROFILE OF A CATFISH

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ABSTRACT – Effects of triiodothyronine (T₃) on catalase activity and specific activity and protein content of liver, heart, kidney and intestine of a freshwater fish *Clarias batrachus* were studied. Treatment of thiourea increased activity and specific activity in these tissues. Whereas injection of T₃ to thiourea exposed fish decreased the activity and specific activity of catalase. In contrast, protein content decreased in response to exposure of thiourea and increased after administration of T₃ to thiourea exposed fish. The present findings suggested T₃ dependent reduction in antioxidative capacity and induction in protein profile of the freshwater catfish, *C. batrachus*.