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IPHT II

COMPARATIVE EVALUATION OF FISH PROTEIN CONCENTRATE AND FUNCTIONAL FISH PROTEIN CONCENTRATE FROM CAT FISH

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Fish protein concentrate and functional fish protein concentrate samples were prepared from eviscerated meat of cat fish (*Tachysurus jella* Day). Functional fish protein concentrate is found to be lighter, less gritty and rehydrates more rapidly than fish protein concentrate. Functional FPC is seen to have higher PER and biscuits containing it at levels of 5 and 7 percent are less hard compared to FPC.

INTRODUCTION

A number of workers in India have reported various methods of production of fish protein concentrate (Bhatia *et al.* 1955; Pillai, 1956, 1957; Moorjani *et al.* 1962; Revankar, Khabade and Rao, 1965 and Ismail, Madhavan and Pillai, 1968). Although the methods of production of FPC have been fully developed it has not yet been possible to market it successfully in India. A number of characteristics of FPC like grittiness, lack of functional properties, together with high cost of production and lack of popular acceptability compared to vegetable proteins, can be attributed to this. Recently the prices of commercially important species of fish has become so high that the production of FPC has become commercially non-viable. Attempts

have also been made to prepare FPC from trash fish (by catch from shrimp trawlers) and studies on its utilization were reported (Gopakumar, 1973). FPC having high PER was also prepared from the picked meat of trash fish and its analytical characteristics reported (Vasanth Shenoy, Kutty Ayyappan and Gopakumar, 1976). A method to prepare FPC having less grittiness and more functional properties, following the method of Bligh *et al.* (1973) is described. Cat fish (*Tachysurus Jella* Day), a fatty fish, abundantly available throughout India and usually obtained as a by catch from shrimp trawlers, is selected for this study. A comparative evaluation was carried out between FPC and functional FPC.

MATERIALS AND METHODS

Cat fish meat separated by a mech.