



Functional Ingredients from Seafood Processing Wastes: Protein Hydrolysate and Biocalcium

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Abstract

The fish processing industry generally generates large amounts of byproducts, including skin, bone, scale, or meat residues, etc. These byproducts contain a wide range of nutritional components such as protein, lipid, mineral, etc. These leftovers can be converted to functional ingredients or nutraceuticals. To produce high value-added functional ingredients, the remaining proteins in fish processing leftovers are hydrolyzed, in which hydrolysate containing different peptides and amino acids can be generated. Frame or backbone as well as scale can be converted to fish biocalcium, which serves as a potential source of calcium and minerals. Nevertheless, potential processing or technology must be adopted to obtain desired products with target bioactivities. This review covers production, characteristics, and bioavailability of fish protein hydrolysate (FPH) and fish biocalcium (BC). This review also focuses on the recent applications of the FPH and BC in drink and foods. Overall, the review points out the better exploitation of fish processing leftovers and simultaneously lower pollution caused by the improper discard or disposal of those wastes to environment. Also, consumers have more choices to consume functional ingredients or nutraceutical from marine resources.

Introduction

In Asia, the total fisheries and aquaculture production reached a record of 214 million tons in 2020, comprising 178 million tons of aquatic animals and 36 million tons of algae as highlighted in the State of World Fisheries and Aquaculture 2022 report. The increasing global fish production has given rise to a large quantity of raw material utilized for processing. Consequently, significant quantities of fish processing leftover, comprising inedible tissues such as bones/frame, skin/scales, gills, swim bladders, fins, intestines, blood, roes, liver, etc. are generated (Kumar et al., 2018). These

remnants are often disposed into the river, waterways, and oceans, resulting in severe environmental contamination. Over the past few decades, efforts have been made to exploit these leftovers via transforming them into fish meal, fertilizer, or animal feed with a low market value (Patil et al., 2022b). Nonetheless, it is crucial to recognize that these leftovers are rich sources of valuable components such as protein, bioactive peptides, enzymes, minerals, lipid, vitamins, flavorant, pigments, etc. (Kumar et al., 2018). Therefore, it is imperative to convert these wastes into value-added products in order to increase their market value and minimize environmental pollution.

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