EXTRACTION AND CHARACTERIZATION OF COLLAGEN EXTRACTED FROM THE SKIN OF STRIPED CATFISH (*PANGASIANODON HYPOPHTHALMUS*)

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ABSTRACT

EXTRACTION AND CHARACTERIZATION OF COLLAGEN EXTRACTED FROM THE SKIN OF STRIPED CATFISH (*PANGASIANODON HYPOPHTHALMUS*)

Collagen has been extracted from the skin of striped catfish (*Pangsianodon hypophthalmus*) and the characteristic of the collagen was studied. Physical properties (colour, odour, and pH) and chemical properties (protein, amino acid, viscosity, and maximum temperature) were analyzed. Acid method was used to extract the collagen and the yield was 9.41%. The collagen extracted were light in colour, had strong fishy and acidic odour, with pH 4.69. When the chemical properties were analyzed, the protein content of the collagen was 29.5%, with 16 amino acid detected (glycine was highest), and maximum temperature was 38.29°C. Striped catfish (*Pangasianodon hypophthalmus*) skin collagen showed that when the temperature increased, the viscosity of the collagen decreased. It can be concluded that collagen was successfully isolated from the skin of striped catfish and characterized.