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***RESEARCH ARTICLE*.....**

Fish visceral protease – an alternative source for recovery of silver from waste X ray photographic films

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ABSTRACT..... Fish processing in India generates enormous amount of solid fish waste and causes various kinds of pollutions. Actually these wastes are used for the production of a variety of value added products such as enzymes mainly protease. Protease enzyme has diverse applications in a wide variety of industries such as detergent, food, pharmaceutical and leather industries, peptide synthesis and for the recovery of silver from used X-ray films. In this paper, *Labeo rohita* fish visceral waste was collected from Mettur Dam, Tamil Nadu. A crude homogenate was prepared and the protease activity was confirmed by zymography. After that an experiment was carried out with the isolated crude protease to prove its efficiency to recover silver from waste X ray photographic films.

KEY WORDS..... *Labeo rohita*, Crude protease, Silver recovery, Zymography, Protease assay

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