



Abstract

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Purification and Characterization of a Bacteriocin Produced by *Lactobacillus lactis* Isolated from Marine Environment

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Abstract:

Bacteriocin producing *Lactobacillus lactis* strain isolated from marine environment, showed broad range of antibacterial activity against some major food borne pathogens. Maximum bacteriocin production was observed at 30°C, pH 6.0 and 1.5% sodium chloride solution. In addition of enzymes, α -amylase, DNase, RNase and lipase were slightly positive effect bacteriocin production. Proteinase K and pepsin were strongly inhibited bacteriocin production. Among detergents, Sodium dodecyl sulphate (SDS), Tween 80 and Tritone X-100 stimulated bacteriocin production and strongly inhibited by EDTA and urea. The bacteriocin has purified by ammonium sulphate precipitate and ion exchange (DEAE cellulose) chromatography. Biochemically it was pure protein moiety and the molecular weight was 94 kDa. The study revealed the possibility of using bacteriocin as a food preservative and the *L. lactis* strain as probiotic.

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