

Bioactive potential of invertase by yeast *Saccharomyces cerevisiae* from the honey bee gut: isolation and characterization

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 A [Correction](#) to this article was published on 25 March 2022

 This article has been [updated](#)

Abstract

The speedy growth of human population, the issues arising out of pollution, demand of invertase yield and dumping of wastes from agro-industry have been influenced to find new solutions for microbial enzymes. In this study, an attempt was made to produce the invertase by yeast isolated from honey bees. Influence of various process parameters like nutritional sources and environmental conditions was studied using waste material. The enzyme was precipitated by using the acetone to get the product for further experimental analysis. Subsequently, it was carried out for further purification by Sephadex G-50 column chromatography and dialysed. At that moment, optimization of culture conditions for the yield of invertase with agro waste was determined by process parameters. It was followed by the immobilization of microbial cells for increasing the yield of invertase by various matrices. In order to check the bioactive potential of invertase, the bread was prepared with and without the amendment of enzyme. The existing result could be supportive to future researchers for industrial applications of microbial invertase by immobilization approach.

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