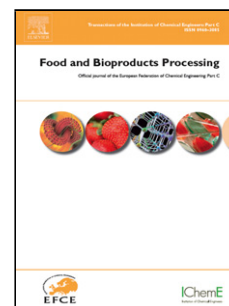


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Immobilization of an alpha-galactosidase from *Debaryomyces hansenii* UFV-1 in cellulose film and its application in oligosaccharides hydrolysis

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Highlights

- Attention industrial catalysts due to their potential biotechnological applications
- Immobilized enzymes offer advantages over their free form equivalent
- Immobilization in cellulose film has properties as simplicity of use and low cost.

Abstract

Debaryomyces hansenii UFV-1 α -galactosidase was partially purified and immobilized in a cellulose film. The immobilization preserved 97% of the initial enzyme activity. The optimal pH levels of free and immobilized α -galactosidases were 5.0 and 4.0, respectively, and the optimal temperatures were 60 and 85°C, respectively. The immobilized α -galactosidase exhibited higher stability at 85°C for

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