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maintained by the intracellular environment. In view of the advantages of immobilized cell system over free cell system, the permeabilized yeast cells were immobilized by entrapment in calcium alginate gel. Different process parameters (alginate concentration, bead size, biomass load, temperature, agitation, incubation time) were optimized to enhance the lactose hydrolysis. Maximum lactose hydrolysis (84.8%) was observed with yeast cells immobilized in 2% (w/v) alginate concentration after 150 min of treatment time. The developed system was highly stable and the alginate entrapped yeast cells can be recycled up to 7th cycle without any significant

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decrease in their ability to carry out the lactose hydrolysis.

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