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ABSTRACT

Optimal conditions for the protoplasts formation from spore of *Rhizopus microsporus var. oligosporus* (ATCC22959) were studied.

A large number of protoplast were obtained by swelling of spore on liquid medium adding 2-deoxy-D-glucose for 7hrs, and by reaction with cell wall lytic enzyme for 3hrs. 0.5M glucose was used as the osmotic stabilizer. Among effective cell wall lytic enzymes, Novozym 234, ß-glucuronidase and cellulase, mixture of Novozym 234(6㎎/㎖) and ß-glucuronidase(5000unit/㎖) was the most effective one on the production of protoplasts.

요 약

*Rhizopus microsporus var. oligosporus* (ATCC 22959) 의 spore로부터 원형질체 생성을 유도할 수 있는 최적 조건들을 연구하였다. 2-deoxy-D-glucose가 첨가된 액체배