

1.5% 酵母粉、0.01% 粗磷脂。优化后的培养基可明显地促进冰核细菌生长和提高冰核活性,其中,菌体收获量(干重)比在 MPDA 培养基中培养增加 2.4g/L,冰核活性增加 24.3%。

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Optimum Screening of the Fermentation Medium for Ice Nucleation Active Bacteria

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ABSTRACT In this paper the effects of the composition of medium and adding different nutrients in medium on the cell growth and the ice-nucleation activity were studied. The composition of the medium was optimized by orthogonality test. The optimum cultivation medium consisted of adding galactose 0.4% , yeast extracts 1.5% , crude phospholipid 0.01% in MPDA medium. The total weight(dry weight) of bacteria cultivated in the optimum medium increased by about 2.4 g/L and the ice-nucleation activity increased by 24.3% compared with that of original conditions.

Key words ice nucleation active bacteria , ice nucleation protein , medium optimization

我国食品配料年销 250 亿

日前,第七届中国国际食品添加剂展览会在广州召开。来自 20 个国家和地区的 792 家国内外食品添加剂、食品配料企业参展,国际参展商有 77 家。展商数量和展出面积均超过以往任何一届,成为亚洲规模最大的食品添加剂、食品配料国际专业展览会。据悉,作为中国 10 多年来中国食品业快速发展的助推器,1991 年我国食品添加剂和配料行业规模为总产量 60 万 t,销售额 62 亿元,到 2002 年时产业规模翻了两番,总产量已达 240 万 t,销售额也达 250 亿元。