

عنوان مقاله:

Screening of L-asparaginase producing strains isolated from honey in different regions of Iran

محل انتشار:

بیستمین کنگره ملی و هشتمین کنگره بین‌المللی زیست‌شناسی ایران (سال: 1397)

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خلاصه مقاله:

L-asparaginase is a well-known enzyme that is used as one of the most effective anti-leukemic drugs. Also, another important application is in the food industry. Lasparaginase is the first anti-tumor activity enzyme that has been widely studied in humans. In this study, the production of L-asparaginase by 30 microorganisms isolated from honey from different regions of Iran was screened. Modified M-9 agar medium was used for qualitative analysis. Three strains produced Lasparaginase. Most of L-asparaginase producers belonged to *Bacillus* sp. based on 16S rRNA analysis. Since Lasparaginase isolated from different bacteria has different anticancer effects, searching for microorganisms that produce this enzyme is one of the main ways to achieve an enzyme with ideal therapeutic properties

کلمات کلیدی:

Cancer, 16S rDNA, *Bacillus*, L-asparaginase

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