

عنوان مقاله:

Antibacterial Activity of Cinnamon Cassia Against Uricase Positive Bacterial Strains

محل انتشار:

پنجمین همایش بین المللی مطالعات میان رشته ای در صنایع غذایی و علوم تغذیه ایران (سال: 1400)

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خلاصه مقاله:

The discovery of new antibacterial agents was mainly based on natural products that can be obtained from different sources including plants, bacteria, algae, fungi, and animals; but there has been an increased interest in bioactive compounds provided by the plant as alternatives to the common antibiotics. In addition, plant extracts and herbs disrupt the growth of numerous pathogenic bacteria. This study aimed to determine the anti-bacterial effect of Cinnamon Cassia against two uricase positive bacterial strains. Cinnamon aqueous extract was able to inhibit both bacterial strains when blended with culture medium. However, in two other methods (paper disc and publication in well), strain No.1 grew and was not affected by Cinnamon Cassia, but strain No.2 did not grow and the MIC was equal to 0.0039 g/ml. However, this bacterium grew well in culture medium containing uric acid without the presence of Cinnamon Cassia. These findings conclude that Cinnamon Cassia may display different antimicrobial effects against various isolates of uricase-positive microorganisms

کلمات کلیدی:

Cinnamon Cassia, Antibacterial Activity, Medicinal Plants, Uricase Positive Bacteria

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