سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا 

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عنوان مقاله:

(The Effect of Nonnutritive Sweeteners on the Antimicrobial Activity of Eucalyptus Extracts against Salivary Mutans Streptococci (in-vitro Study

محل انتشار:

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## خلاصه مقاله:

The eucalyptus tree is an excellent source of antimicrobial agents; it is used in many oral cure products. The bitter taste of these agents could compromise their usage. Therefore, fortifying the extracts with non-nutritive sweeteners could be a promising procedure for masking their unpleasant taste. This study was an in vitro evaluation of the antimicrobial activity of eucalyptus (alcoholic and aqueous) extracts against salivary Streptococci mutans. It aimed to investigate the effect of non-nutritive sweeteners on the antimicrobial activity of these extracts against salivary S. mutans. The test microbes were sensitive to different concentrations of eucalyptus alcoholic and aqueous extract, and the inhibition zone increased as the concentration of the extracts increased. All the Mutans isolates were killed at a concentration of VA mg/ml for the alcoholic extract and VA mg/ml for the aqueous extracts. In this experiment, the concentration of up to VA stevia and up to VA sucralose did not affect the antimicrobial activity of eucalyptus alcoholic extract. While the concentration of up to VA of stevia and sucralose did not interfere with the antimicrobial activity of eucalyptus extract against salivary S. mutans. An increase in the concentration of non-nutritive sweeteners in this experiment appeared to interfere with the antimicrobial activity of eucalyptus extract against salivary S. mutans.

كلمات كليدى:

Eucalyptus, Mutans streptococci, Nonnutritive sweeteners, Stevia, Sucralose

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