

**ABSTRACT**

**INHIBITION PROFILE OF PROBIOTIC BACTERIA *Lactobacillus acidophilus*, *Lactobacillus bulgaricus* and *Lactobacillus casei* ON THE GROWTH OF *Streptococcus mutans* Serotype-C local**

Antibacterial activity of *Lactobacillus acidophilus*, *Lactobacillus bulgaricus*, *Lactobacillus casei* and *Lactobacillus casei* strain Shirota againsts *Streptococcus mutans* Serotype-C local was investigated. The aims of this research was to study antibacterial activity of those probiotics againsts *Streptococcus mutans* Serotype-C local, including onset of action, duration of action and maximum activity. This research used two methods, modified diffusion agar method and hole method. In modified diffusion agar method, only mixed of four cultures had showed antibacterial activity againsts *Streptococcus mutans* Serotype-C local. The maximum activity of this mix-culture has been reached at 6<sup>th</sup> hours after incubation with inhibition zone diameter of 11.83 mm.

Keywords : *Lactobacillus acidophilus*, *Lactobacillus bulgaricus*, *Lactobacillus casei*, antibacterial activity