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## Inhibition of Autoinducing Peptides by Lactic Acid Bacteria: A Promising Strategy Against *Enterococcus faecalis* from saliva

Novel therapeutic strategies are required to mitigate antibiotic-resistant *Enterococcus faecalis*, a common pathogen in oral infections. In current work, we investigated the possibility of lactic acid bacterial (LAB) solvent extracts to suppress autoinducing peptides (AIPs), which are essential for quorum sensing in *E. faecalis*. *E. faecalis* isolates were characterized from saliva. The capacity of LAB extracts can obstruct AIP-mediated quorum sensing that in turn lowered the expression of virulence factors and the formation of biofilms. These results demonstrate the potentiality of LAB extracts as natural alternatives to conventional antibiotics by blocking quorum sensing in *E. faecalis*. Additional research into these extracts' active ingredients and their mechanisms of action may result in novel therapeutic agents.

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