

III. OBJECTIVES

1. Due to the selection of potent antimicrobial activity, the present study was aimed to characterize the potent isolates, their cell-free supernatants and crude bacteriocins according to the antimicrobial activity against *P. gingivalis* W50.
2. Significantly, the present study was also focused to partial purify the active bacteriocins which extracted from these isolates.
3. In this moment, the last objective of this study was the determination for some properties of the partially purified bacteriocin, including the bacteriocin activity, the minimal inhibitory concentration and the killing time towards *P. gingivalis* W50.