In vitro* ANTIBACTERIAL ACTIVITIES OF GRAPE, *Vitis vinifera*, VINEGAR AGAINST *Flavobacterium psychrophilum

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ABSTRACT

The aim of this study was to assess the antibacterial activity of grape vinegar against *F. psychrophilum*. The antibacterial activity was determined by using agar well diffusion assays. The vinegar was tested against two strains of *F. psychrophilum*. While the highest inhibition zone diameter of grape vinegar was determined as 60 mm, the lowest was 47mm against to the pathogen. Grape vinegar displayed potent antibacterial activity against the tested two strains of bacteria with a diameter of inhibition zone ranging between 60 mm and 47 mm. Antibacterial and immunostimulant properties of this vinegar is known to be therapeutic for human health in many diseases. The present study showed that it is also being found to be effective against fish pathogen. The results confirmed that the grape vinegar would be used as a potential source of antimicrobial agents in aquaculture for the control of infection which caused by *Flavobacterium psychrophilum* pathogen.

KEYWORDS: Grape vinegar, *In vitro*, bacteria, agar well diffusion, *Flavobacterium psychrophilum*.

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