

ISOLATION AND MOLECULAR IDENTIFICATION OF AMYLOLITIC BACTERIA FROM VANNAMEI SHRIMP (*LITHOPENAEUS VANNAMEI*) PONDS AS PROBIOTIC AGENTS

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Abstract	<p>Probiotics are bacteria that have the potential to be developed as biocontrol agents in aquaculture. Several probiotic abilities have been known such as protein breakdown and antibacterial which are relevant to suppressing the growth of pathogens. This study aimed to isolate and identify the molecular amylolytic bacteria from vannamei shrimp aquaculture ponds with different systems as probiotic agents. The method used were a survey and random sampling technique from traditional and intensive shrimp farming. Parameters analyzed included the proportion of proteolytic bacteria, amylolytic index, and molecular identification. The results showed that the proportion of amylolytic bacteria in intensive ponds was higher than in traditional ponds. Screening based on colony morphology and the highest activity index obtained four identified bacterial isolates from the <i>Vibrio</i> sp, <i>Staphylococcus</i> sp, and <i>Pseudoalteromonas</i> groups with an identity value of 98.23%-99.80%. <i>Pseudoalteromonas</i> sp. has the highest amylolytic content and generally has antimicrobial activity which can be used as probiotic agents.</p>
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