ABSTRACT

SCREENING OF BACTERIAL ISOLATES INHIBITING *Vibrio harveyi* IN REARING OF PACIFIC WHITE SHRIMP (*Litopenaeus vannamei*)

By

ASSOVARIA

Culture of pacific white shrimp often suffers bacterial infection, mainly infection of *Vibrio harveyi*. The disease that characterised by luminous shrimp body can drop the larvae production. Using suplement (probiotic) that potentially inhibits *V. harveyi* is one of currative method of the disease. The purpose of this study was to obtain bacterial isolates as probiotic candidate that capable to inhibit *V. harveyi*. The implementation of this study was including screening of bacterial isolate, identification of bacteria, pathogenicity test and challenged test. Screening of bacterial isolates was succeded to abta an isolate that have ability to inhibit *V. harveyi*. The isolate was identified as *Acinetobacter* sp. Pathogenicity test was shown that the isolate was not a pathogen. Challenged test was conducted in larvae of pacific white shrimp through 3 treatments i.e treatment without bacterial given as a control; treatment with *V. harveyi* solely given ; and treatment with *V. harveyi* and *Acinetobacter* sp. given. Treatment of *V. harveyi* and *Acinetobacter* sp. given was able to decrease density of *V. harveyi* from 6.3x10^6 CFU/mL to 7.5x10^3 CFU/mL.

**Keywords**: pacific white shrimp, *Vibrio harveyi*, probiotic, *Acinetobacter* sp.