

# The potential of local chitinolytic bacteria isolates as larvacide of *Aedes aegypti* L

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## Abstrak

The purpose of the research is to identify the potential of the local chitinolytic bacteria as biocontrol of *Aedes aegypti* L.

This research has been conducted in the Microbiology Laboratory of Mathematics and Science Faculty, University of

Syiah Kuala. The chitinolytic bacteria were isolated from water that taking in some area in Banda Aceh and Greater

Aceh. The method used was an experimental method using completely randomize factorial designed (CRFD) with two

factorial and consists of 6 isolates of chitinolytic bacteria and 4 concentrations of bacteria (0.0 mL, 0.5 mL, 1.0 mL dan

1.5 mL). The results show that the isolates bacteria do not have any effect on the *Aedes aegypti* L. Larvae death in the

transformation from larvae to pupa until the seventh observation day. The concentration of the bacteria influences the

*Aedes aegypti* L. larvae death during the transformation larvae to pupa.