

EFFECT OF PROPAGATION MEDIA AND CONCENTRATION OF ACETIC ACID ON THE CULTURE OF *Beauveria bassiana* FUNGI ON RICE BUG (*Leptocorisa oratorius*) MORTALITY IN RICE PLANT (*Oryza sativa* L.)

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ABSTRACT

Rice bug attacks can reduce rice productivity. This research was conducted to determine the effect of propagation media and acetic acid on rice bug mortality, grain weight and the percentage of grain damage. The research was conducted in July-October 2023 in the greenhouse of the Faculty of Agriculture UPN "Veteran" Yogyakarta. This research used a 2-factor completely randomized design + control. The first factor was propagation media (rice and corn) and the second factor was acetic acid concentration (0%, 0.5%, 1% and 2%). The data was analyzed by Analysis Of Variance ($\alpha= 5\%$) following Duncan multiple Range Test ($\alpha= 5\%$) . Orthogonal Contrast Test ($\alpha= 5\%$) was used to compare control with treatment. The results showed an interaction between propagation media and acetic acid on pest mortality on the second (23.33%) and seventh (70%) days after treatment. There was no interaction on dry grain and the grain damage. There was no significant difference between propagation media rice from corn in increasing rice bug mortality, grain weight and reducing the percentage of grain damage. 0.5% acetic acid added to propagation media increase mortality of rice bug (60%) and grain weight (22.67 g) and resulted in the lowest percentage grain damage (41.58%).

Keywords: *Rice, media, vinegar, Beauveria bassiana, Rice bug*