

**THE EFFECT OF KAOLIN AND NEEM SEED OIL EXTRACT  
MIXTURE ON THE HOST FINDING FOR FEEDING AND  
OVIPOSITION OF ASIAN CITRUS PSYLLID (*Diaphorina citri*  
Kuwayama)**

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**ABSTRACT**

Citrus plants suffer greatly from the Asian citrus psyllid (ACP), *Diaphorina citri* Kuwayama. In addition to being a pest, this insect transmits the infectious bacterial *Candidatus Liberibacter asiaticus*, the causal agent of *Huanglongbing* disease (HLB) or citrus vein phloem degeneration (CVPD). The aims of this study were to determine the effect of kaolin and neem seed oil extract mixture on the host finding and the oviposition behavior of ACP. This research was conducted in October 2022 - September 2023 at the experimental garden of the Faculty of Agriculture, UPN "Veteran" Yogyakarta, located in Wedomartani, Ngemplak, Sleman, Yogyakarta. The method used was the choice test and non-choice test method. The data were analyzed by using analysis of variance (ANOVA) with a significant level of 5% using a randomized complete block design (RCBD) with six replications, if there was a significant difference between treatments, it was further analyzed using the Duncan Multiple Range Test (DMRT). The study found that neem seed oil and kaolin can be used for disrupting host finding behavior, however there was not any effect on the variation of neem seed oil and kaolin concentration. A mixture of kaolin and neem seed oil extract, N1.5%+K5%, significantly reduced psyllid oviposition

Keywords: *Diaphorina citri*, neem seed oil, kaolin