

ABSTRACT

*The study, entitled the use of essential oils leaves of marigolds (*Tagetes erecta*) and petrogenol as towing fruit fly pest of pepper plants kriting (*Capsicum annuum* L) was implemented in the village of Dukuh tangkulan Godean Village Sidoarum Sleman province of Yogyakarta in September until November 2015. 1. to determine the effect of essential oils using marigolds leaves and pesticide methyl eugenol (petrogenol) as towing fruit fly pest in pepper curls.*

2. To determine the most effective essential oils as towing a fruit fly pest in pepper kriting. Metode research is that, using a single factor is collated in a completely randomized design (CRD). The treatments were that the essential oil of leaves marigolds as much (0,2ml, 0,4ml and 0,6ml, Petrogenol 0,2ml, 0,4ml and 0,6ml and water as a control). each - each treatment repeated 3 times.

From the research that has been done can be concluded that petrogenol more effective than essential oils marigolds, 1. Kenikir with 0,6ml dose is as effective as methyl eugenol 0,2ml in capturing fruit flies, 2. Essential oils are marigolds more effectively by using a concentration 0,6ml in reducing fruit damage.

Keywords: chili curly, volatile, marigolds, petrogenol