

**INHIBITION TEST OF RED GINGER (*Zingiber officinale*
var.rubrum) AS A NATURAL FUNGICIDE TO GROWTH
Fusarium oxysporum IN CITRUS PLANTS (*Citrus sp*)**

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ABSTRACT

This study aims to determine the inhibitory power red ginger extract (*Zingiber officinale* var.rubrum) on the growth of the *Fusarium oxysporum in vitro*. The experiment was conducted experimentally using completely randomized design (RAL) with 6 treatments and 4 repetitions. The treatment by inoculating *Fusarium oxysporum* in solid dilution on growing medium was PDA (Potato Dextrose Agar) mixed with some red ginger extract concentration: L₁= 30%, L₂= 40%, L₃= 50%, L₄= 60%, L₅= 70%, and control by using aquades and incubated for 5 days. Data analysis using *Kruskal-Wallis* test was continued with *Mann-Whitney* test to show significant difference in power ($p < 0.05$) between red ginger extract concentration on *Fusarium oxysporum* growth. The results of this study show red ginger extract can inhibit at 60% concentration with a diameter of 1.4 mm and 70% concentration with a diameter of 1.2 mm.

Keywords : red ginger, *Fusarium oxysporum*, solid dilution, *in vitro*