ABSTRACT

Zulfa Sukma Huzaeni, 2024. Effectiveness Test Of Biochar Three In One On The Growth Of Lettuce Plants (Lactuca sativa L.). Guided by Prof. Dr. Cartono, M.Pd., M.T. as a first advisor and Drs. H. Ahmad Mulyadi, M.Pd. as a second advisor

An effort to increase the productivity of lettuce plants (*Lactuca sativa* L.) *is by adding ingredients to the planting medium. Biochar Three In One is a solid material resulting from organic waste which is rich in carbon resulting from incomplete combustion. Biochar three in one consists of 3 components, namely husk charcoal, organic fertilizer and biological agents. This research aims to determine the effectiveness of biochar three in one on the growth of lettuce plants* (*Lactuca sativa* L.). *The method used was quantitative experimental research with a CRD* (*Completely Randomized Design*) *research design. There are 6 treatments, including A as a control, in the form of planting media only, treatment B, planting media plus 35 grams of biochar three-in-one, treatment C, planting media plus 40 grams of biochar three-in-one, treatment D, planting media plus 45 grams of biochar three-in-one, treatment E media planting plus 50 grams of biochar three in one, and treatment F planting media plus 55 grams of biochar three in one. The results obtained stated that three in one biochar was effective on the growth of lettuce plants* (*Lactuca sativa L.*)*, with the most effective treatment is F with a dose of 55 grams for plant height, and treatment C with a dose of 40 grams for number of leaves and plant weight.*

Keywords *: Biochar Three In One, Lettuce Plants* (*Lactuca Sativa* L.)