

Lettuce (*Lactuca sativa* L.) is a vegetable commodity that has high economic value. However, in the process of cultivation, this plant experienced problems which resulted in a decrease in total production yields and even resulted in crop failure caused by pest attacks, one of which was armyworm. Therefore, it is necessary to have an environmentally friendly control to suppress this pest population. One way of controlling that can be used is to use areca nut. This research was conducted in September 2021 – October 2021 at the Production Laboratory of the Department of Agro ecotechnology, Lambung Mangkurat University, Banjarbaru. The research design used was a completely randomized design (CRD) with 1 factor, with 5 treatments and 4 replications. The treatments used included P0 (control), P1 (concentration 1 g/l water), P2 (concentration 5 g/l water), P3 (concentration 10 g/l water), and P4 (concentration 15 g/l water). The results obtained showed that P4 treatment with a concentration of 15 g/l of water was effective in controlling armyworms because it showed the best results in the percentage of total mortality, and resulted in a mortality of more than 50% within 42 hours of observation after being treated and the LC50 value in this study was at a dose of 44.309 g/l.