INVIGORATION WITH VARIOUS BIOPRIMING ON INCREASING GERMINATION, GROWTH AND YIELD OF STORED SWEET CORN (*Zea mays saccharata Strut* L.)

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ABSTRACT

Sweet corn seeds (*Zea mays saccharata Strut* L.) that have been stored for a long time will experience seed setbacks or deterioration. Deterioration can be overcome by seed invigoration treatment using bio priming. The research aims to determine the effect of bio priming treatment on germination, growth and yield of stored sweet corn seeds. The research consisted of two experiments, namely germination tests and growth and yield. The research used two experimental designs, namely a Completely Randomized Design (CRD) and a Completely Randomized Block Design (CRBD) with 3 replications. Treatment consisted of No biopriming, 40% and 60% Shallot Extract, 4% and 6% Moringa Leaf Extract, Combination of 40%, 60% Shallot Extract with 4%, 6% Moringa Leaf Extract. The results of the research showed that the seed invigoration treatment using a combination of Shallot Extract and Moringa Leaf Extract was as good as seed invigoration using a single extract for yield parameters, namely cob diameter, cob weight with husks, cob weight without husks, and sweetness content.

Keyword : corn, *invigoration, biopriming*