

Uji Vigor Beberapa Lot Benih Oyong (*Luffa acutangula*) Terhadap Cekaman Suhu Dan Kelembaban. Vigor Test of Some Squash Seed (*Luffa acutangula*) Lots with Temperature Stress And Humidity. Advisor : Moch. Bintoro and Dwi Rahmawati.

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ABSTRACT

*The aim of this research is to know the strength of sprouted seeds to the environment that is suboptimum and storability vigor on squash seed (*Luffa acutangula*). This research was done for three months from September to November 2015 at PT. East West Seed Indonesia Jember Laboratory. This research used a factorial completely randomized design (CRD) with two factors and repeated 3 times. The first factor was Lot Seed consists of 7 Lot. And the second factor was temperature stress consists of 4 levels, namely: (C1) 0 hours, (C2) 24 hours, (C3) 48 hours, and (C4) 72 hours. The data was analyzed by using ANOVA and then tested further by using DMRT level of 5%. The result of this research was the treatment of Lot seed showed highly significant effect (**) to all parameters that were observed. Parameter stress that was given, showed no significant result (ns) on the parameters of germination and highly significant effect (**) at the Speed of Growth (KCT) and Vigor Index.*

Key words: *Test Vigor, Temperature Stress Temperature and Humidity, Squash*