Pengaruh Beberapa Umur Simpan dan Lama Perendaman terhadap Vigor Benih Mentimun (*Cucumis sativus* L.) dengan Konduktivitas Tes.
(*Effect some period of stored and soaking time of vigor cucumber (Cucumis sativus* L.) *with electrical conductivity test.* ***Advisor : Ir. Hari Prasetyo, MP and Ir. Moch Bintoro, MP.***

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ABSTRACT

Producer of seed will produce seeds more than market demand, so they have stock of seeds stored in warehouse storage. As long storage, seed will be decrease. To find out the condition of seeds, it is necessary to do quality testing to seeds on a periodic by seed's vigor. Electrical conductivity test is one of seed's vigor testing which has principles to analyze the leakage of seeds due to damage the membrane as measured on conductometer. This study was carried on July-September in 2016 at laboratory of PT.Benih Citra Asia which placed at Akmaludin street in Ajung, Jember. Design of this research is Complete Random Design (RAL) which has factorial with two factors. First is period of stored, consist of: 1 month, 2 months, 3 months, 8 months, 23 months, 24 months, 51 months. Second is soaking time, consist of: 4 hours, 6 hours, 18 hours, 24 hours. The result shows the period storage treatment as 51 months has the highest and as 3 months has the lowest electrical conductivity. Whereas the soaking treatment as 18 hours gives the highest DHL score and as 4 hours soaking treatment gives the lowest DHL score. The best interaction seed's vigor status at combination as 18 hours in the 51 months. Because it is same with the score of DB, KST and KCT. The score of the electrical conductivity has a negative correlation with germination, speed of simultaneity growth, with the closeness of each scores such as R2 0,62; 0,60 and 0.62.

Keywords : *Cucumber, Electrical conductivity test, Period of stored, Soaking time, Vigor*