Effect of Media Composition and Length of Fermentation of Cocopeat Compost and Goat Manure on Tobacco Acclimatization (Nicotiana Tabaccum L)

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ABSTRACT

This research aim to know the influence of media composition and cocopeat compost fermentation time and goat manure on Tobacco Acclimatization (*Nicotiana tabaccum* L) and also has been carried out to determine the composition of the appropriate growing media and compost fermentation time to the growth of tobacco on acclimatization step. This research was conducted in September-November 2019 at the Green House and Tissue Culture Laboratory the State Polytechnic Of Jember. The design of this research uses a factorial randomized design consisting of 2 factors, namely the media composition consisting of M1: compost: top soil: sand (1: 1: 1); M2: compost: top soil: sand (3: 1: 1); M3 compost: top soil: sand (5: 1: 1); the second factor is the duration of compost fermentation consisting of P1: 3weeks; P2: 5 weeks. The results showed that the interaction of media composition and length of fermentation cocopeat compost and goat manure did not show any real effect on all observed parameters, but the composition of the planting medium had a significant effect on fresh weight and dry weight of plants.

Keywords*: Cocopeat; Fermentation; Goat manute; Media; Tobacco.*