ABSTRACT

Patchouli plant (Pogostemon Cablin Benth) is one of the essential oil producing plant originating from Indonesia, The philipines and India. Patchouli plants are propagated vegetatively by cuttings. This study aims to examine the effect of soaking time and Rootone-F concentrations on the growth of patchouli seed cuttings. This research was conducted in the experimental garden of the FacultyofAgriculture andlaboratory of Malikussaleh University. North Aceh District. The studytook place from January to March, 2023, using a Randomized Block Design (RBD). The first factor consisted of four levels, namely (R0) without soaking, (R1) 1 hour soaking time, (R2) 2 Hour soaking time, (R3) 3 hour soaking time and the second factor cosisted of three levels, namely (w1) concentration 100mg/ one liter of water, (W2) concentration 200mg/ one liter of water, (W3) concentration 300mg/ one liter of water. The variables observed were plant height, number of shootst, number of leave, number of shoots, root length, cshoot fresh weight, crown dry weight. The length of soaking affects plant height, number of shoots of the patchouli. Rooth length, crown fresh weight,root shoot dry fresh weight,root drv The concentration of rrotone-f is 200 mg one liter of waterhad an effect on all parameters observed. The interacetion between soaking time and rootone-f concentration influences the variabel of plant height, number leaves, root dry weight. The best interaction was found in the R3W2 treatment.

Keyword: patchouli, Soaking time, Rootone-F, Concentration