



Aclimatación in vitro de especies forestales nativas del Sur de Manabí en peligro de extinción [

2017

text (article)

Analítica

Due to the constant depredation of their environment, the forest species *Myroxylon balsamum*, *Tabebuia crhysantha* and *Tabebuia billbergii*, are timber species, which are in the process of genetic erosion in the southern area of Manabí (Ecuador). The objective of the present research was to determine the adaptation of plants produced in vitro (vitroplants) to the natural environment conditions. For this, plants obtained by micropropagation of *M. balsamum*, *T. crhysantha* and *T. billbergii* were transplanted to a substrate composed of 40% river sand, 40% humus and 20% decomposed wood sawdust. The substrate was disinfested with steam at 121 C for 3 hours. The irrigation was applied twice a day with a sprinkler for 20 days, reducing the irrigation gradually during the following 40 days, watering them from this moment once a day for another 20 days. or the evaluation of the acclimatization, the survival, plant height and leaf number (vigor) of the plants were estimated. The results showed that *M. balsamun*, *T. crhysantha* and *T. billbergii*, had 65, 80 and 70% respectively survival. The vitroplants sizes were between 17.07 and 19.53 cm in the pre-acclimatization period with strength between 7 and 14 leaves, respectively. The heights of the plants were from 20.8 to 30.8 cm and were considered ready for planting

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