

INVESTIGATING THE DISTRIBUTION AND PLANTING TEST MODEL OF OUTSIDE THE ECOLOGICAL DISTRIBUTION OF *Curculigo orchioides* IN THUA THIEN - HUE PROVINCE

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Summary

Curculigo orchioides Gaertn. (Hypoxidaceae) is one important traditionally medicinal plant in Vietnam and in the world. However, the demand using *C. orchioides* for medicine is constantly increasing. While, the quantity of *C. orchioides* in nature was quite erratic and not enough. Consequently, *C. orchioides* has led to the current endangered status. Hence investigating the distribution and planting test model of outside the ecological distribution of *C. orchioides* in Thua Thien Hue province is needfully. Result of investigating, we shown that *C. orchioides* distributed in Hue city, Huong Tra and Huong Thuy district, Thua Thien - Hue province. Ecology conditions for species at distribution was under canopy Pinus forest with the darkness cover 0 - 5%, soil and gravel, gravel surface, Height from 80 to 120 m, slope 30°, temperature 24 - 25.2°C, annual average rainfall 2,600 - 2,800 mm and humidity 83 - 84%. The first, the first time, we were planting test in sandy soil of Thua Thien - Hue province. The results show that the survival rate and the number of leaves and roots, as well as the length and circumference of rhizome of *C. orchioides* in gravel soil under pine forest (1 kg / m²) + sandy soil + 2 kg of organic fertilizer / m² treatment was best comparing among treatment. In our data will providing science data and experimental facilities for planting new species for localities and improving the livelihoods of communities in difficult economic areas of Thua Thien - Hue province.

Keywords: *Curculigo orchioides* Gaertn., medicinal plant, plant test model, sandy fields.