

Propagation and Tissue Culture

Tissue Culture and Seed Potato Production in Vietnam

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ABSTRACT

Work was conducted to establish tissue culture methods for the rapid multiplication of potato for seed production. The intensive procedure developed comprises six steps, using sterile in vitro conditions in the first and semi-sterile or field conditions in the other steps. Single node cuttings, obtained from healthy clones maintained in vitro, were used as starting propagula, and the subsequent steps were carried out using cuttings from test tube cultures and grown on sand, enriched soil mix, and then potted. Potted plants were used for high density field transplanting. In the last step, small tubers from the field were handed to seed production cooperatives for seed production.

Based on the results of this research, a station for Seed Potato Multiplication could handle 10,000 test tube cultures and produce 1500 tons of low virus seed potato every year.

