

Production of Vine Viruses Free Rootstocks Rooted in Jiffy-7 Pills at S.C.D.V.V. Blaj

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SUMMARY

This paper aims to explore four varieties of rootstocks, selected at SCDVV Blaj: Berlandieri x Riparia selection Oppenheim 4-4, Berlandieri x Riparia selection Crăciunel 25, the selections Crăciunel 26 and Crăciunel 71, from the material core of greenhouse in the SCDVV Blaj, sent for virus testing to INCDBH Ștefănești Argeș. The material (rootstocks cuttings), virus-free (VF-virus free), was rooted at SCDVV Blaj, in the Jiffy-7 pills, made from peat, steam sterilized and enriched with fertilizers and pH correction. The pills were placed in plastic casings (20 pieces each), which were placed on a layer of sand 6-8 cm thick and 1.2 to 1.4 m wide. Before planting, the pills were watered 3-4 times, to have expanded, reaching 10 cm high and 5 cm diameter. The plantation was at a depth of 5-7 cm. The foliage fertilizing was made with four types of fertilizers: Nutriplant, Potassium nitrate, Greenzit, and Calmax. The maintenance works and of protection treatments were the same with vine rooted and fortified in polyethylene foil bags. The obtained results show that yield good planting vines is 82.80% higher than at rooting in the field, almost double. The highest quantity of chlorophyll and carotenoid pigments were obtained to foliage fertilization with Greenzit (3.462 mg / g of fresh substance). Percentage attachment was 97-98% at all varieties and the production of cuttings was higher in the second year after planting. Degree of maturation of the wood has exceeded 12.96% at Crăciunel 25, 13.96% at Crăciunel 26 and 14.30% to Crăciunel 71, on length 0-4, and in 2009 (in the three year of culture), all carbohydrates have exceeded 12.20% at all varieties. In conclusion it can be said that the pills Jiffy-7, is a modern method of planting vine material production in environmentally controlled areas, outside risk factors. This method favours more rapid formation of roots, promotes uniformity in the growth at the vines, in obtaining a higher yield of good planted vines and much lower costs (0.23 Euro / piece).

Keywords: rootstock, virus- free, rooted, Jiffy-7 pills

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