

Original article

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## Influence of the Concentration of Growth-Regulating Preparation on the Biometric Indicators of the European Cranberry (*Oxycoccus palustris* Pers.) during *in vitro* Cultivation

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**Abstract.** The results of studies on the cultivation of European cranberry (*Oxycoccus palustris* Pers.) of the Dar Kostromy cultivar and the hybrid form 1-15-635 *in vitro* at the stage of “proper micropropagation” on the WPM nutrient medium. Clonal micropropagation is most appropriate to use for the rapid production of a large amount of high-quality planting material for forest berry plants. Technologies of clonal micropropagation of European cranberry cultivars of Russian selection need to be improved. Growth-regulating substances are 2-iP cytokinin at the concentrations of 1.0 and 2.0 mg/l and adaptogen Epin-Extra at a concentration of 0.5 ml/l. An increase in the concentration of cytokinin 2-iP from 1.0 to 2.0 mg/l in the WPM nutrient medium contributed to an increase in the number (by 1.2 times) and total length (by 1.3 times) of cranberry microshoots *in vitro*. The addition of Epin-Extra 0.5 mg/l to the nutrient medium contributed to a increase in the number by 1.1 times and a increase in the total length by 1.2 times of microshoots. Significant differences in the number and length of shoots of European cranberry are not revealed depending on the cultivar or form.

**Keywords:** european cranberry, forest berry plants, microclonal propagation, *in vitro*, shoot formation, growth-regulating preparations.

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