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Horticultural Science

In vitro shoot proliferation of sweet cherry cultivars Karešova and Rivan

Sedlák J., Paprštejn F.:

Hort. Sci. (Prague), 35 (2008): 95-98

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The objective of this study was to investigate the possibility of optimizing routine tissue culture methods to proliferate two sweet cherry cultivars Karešova and Rivan. Shoot tips of two genotypes were successfully established *in vitro*. Six proliferation MS media containing 1, 2 and 4 mg/l BAP (6-benzylaminopurine), 0.5 and 1 mg/l TDZ

(thidiazuron) or 10 mg/l 2iP (6-(γ , γ -dimethylallylamino)purine) were tested. The highest proliferation rate (3.0 ± 0.1) was obtained for Rivan on MS medium containing 2 mg/l BAP. In the case of cultivar Karešova, any of the cytokinins tested did not promote satisfactory proliferation. The highest proliferation rate (1.6) achieved on MS medium with 2 mg/l 2iP is not sufficient for a larger scale *in vitro* shoot production. It was proved that different genotypes of sweet cherry do not respond in the same way during proliferation *in vitro*. Future research and testing of other media and plant growth regulators will be carried out.

Keywords:

Prunus avium micropropagation; culture initiation; multiplication; cytokinins

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