

عنوان مقاله:

Proliferation of three Sweet cherry cultivars cvs. Hajyusefi , Pishras-e-Mashhad and Zard by meristem culture

محل انتشار:

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خلاصه مقاله:

The aim of this study was to determine the effects of media and BAP concentrations on the multiplication of the three cultivars of sweet cherry (Hajyusefi , Pishras-e-Mashhad and Zard) by meristem culture. Three kinds of basal media (WPM, MS and QL) with three different concentrations of BAP (0, 1 and 2 mgL⁻¹) were used. Also, 0.5 mgL⁻¹ GA3 and 0.1mgL⁻¹ IBA were added to all of the media the same. Cultures were maintained at 26°C under a 16 hr-light / 8 hr-dark with a light intensity of 2000-3000 lux from white fluorescent light. After three consecutive subcultured, the shootlets were excised and shoot number and shootlength with plantlets quality were measured. The result showed that there was significant differences between cultivars for the number and the length of shoots. The highest average new number, length of shoots and Plantlets quality induced with application of MS medium supplemented with 1 mgL⁻¹ BAP in Hajyusefi cultivar. Also, the least shoot number and shoot length obtained with using of QL medium without BAP treatment in Pishras-e- Mashhad cultivar.

کلمات کلیدی:

meristem culture, multiplication, Sweet cherry, shoot number, shoot length

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