Assessment of changes in polyphenols and antioxidant enzymes in spades Shflra (Schefflera arboricola) during rooting

Maryam fathi*,

Abstract Schefflera (Schefflera arboricola) was propagated using leafy cuttings, to evaluate biochemical changes and vegetative traits in Schefflera cuttings during rooting period, an experiment carried out with 13 treatments based on randomized complete block design, in 3 replications. Experimental treatments included different levels of IBA, NAA, ABA, salicylic acid (SA) and combinations of these hormonal substances; The results showed that application of hormones had a positive impact on rooting, and the most treatments, compared to the control, the percentage of rooting was high. The present study indicated that the application of different hormones affects morphological traits in varying degrees. According to results, high percentage of rooting under 1000 mg/L NAA, the large number of roots, by treated combination of 1000 mg/L NAA, and 200 mg/L SA, and the tallest roots under 1000 mg/L NAA, or 100 mm ABA, respectively were obtained.

Keywords : Keywords: Schefflera; Abscisic Acid (ABA); Salicylic Acid (SA); Naphthalene Acetic Acid (NAA); Rooting