**Effect of some selected plant extracts on rooting and early growth of Salvia (*Salvia splendens*), Henckelia hybrid Ⅱ and Impatiens (*Impatiens walleriana*) stem cuttings**

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*Salvia splendens* and *Impatiens walleriana* are widely used bedding and border plants in landscaping. Rapid propagation is very important to fulfill landscaping requirements. Both of these plants are propagated by using seeds and cuttings. But there are limitations of seeds propagation. Henckelia plant is an endemic wild flowering plant in Sri Lanka that is close to extinction due to indiscriminate collection from natural habitats. This is normally propagated by using stem cuttings. It needs to be propagated in large quantities especially for biological conservation. Since the rooting hormones are costly and less available, the present study was carried out to find an effective plant extract to increase the rooting of these three plant cuttings. This experiment was conducted according to One Way Analysis of Variance with eight treatments replicated three times. Effect of Moringa leaf extract with 3, 6, 9 g/ L (dry weight), garlic clove extract with 15, 20, 25 g/ L (fresh weight) and commercially available rooting hormone were tested in this study. Distilled water was the control treatment. In this experiment, number of leaves, shoot length, number of roots, root length, shoots and roots dry weights were measured. Root, shoot characteristics responded differently against different treatments. Both Moringa and garlic extracts were performed well in root length and 20 g/ L garlic extract was performed well in shoot length of Salvia. Moringa extract has shown better performances in all root and shoot parameters in Henckelia except shoot dry weight. The highest root length and shoot length were observed in 9 and 6 g/ L Moringa extracts, respectively in Impatiens. 15 g/ L garlic extract has recorded the highest shoot dry weight in Impatiens. The results suggest that both plant extracts have potential in substituting commercially available rooting hormone in propagation of Salvia, Henckelia and Impatiens stem cuttings.

**Keywords:** *cuttings, garlic clove extract, moringa leaf extract, root characteristics, rooting hormone*