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**Effect of Benzyl Adenine on High Quality Shoots Multiplication of *In-Vitro* Propagated *Heuchera hybrida*. (Coral Bells)**

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*Heuchera hybrida* is a herbaceous perennial and it belongs to the Saxifragaceae family, commonly known as coral bells. These are important as decorative foliage plants. *H.hybrida* is used as a cover plant in urban green spaces, including vertical walls. It is one of the most commonly micro-propagated species due to the high demand as decorative foliage and the availability of a wide range of cultivars. Tissue culture procedures have been developed for mass propagation to meet the increasing demand for commercial-scale cultivations because only a few cultivars can be produced by fertile seeds, while most of the cultivars do not produce seeds at all. The goal of this study was to develop an effective tissue culture protocol with optimized BA to increase the number of quality shoots by *in-vitro* regeneration of *Heuchera hybrida* shoots. The correct concentration of plant growth regulators (BA and IBA) was selected in this study. It was compared with different plant growth regulators concentrations and combinations.The *Heuchera hybrida* shoots, as explants were cultured on MS medium supplemented with different concentrations of benzyl adenine(BA) where five treatments; 0mg/L BA, 0.05mg/L BA, 0.1mg/L BA, 0.2mg/L BA and 0.05mg/L BA with 0.2mg/L IBA were used. Cultures were placed under 2500-4000 lux light intensity and the temperature was maintained at a range 200C-250C. After 4 weeks, the number of quality shoots was counted. However, the results of the experiment revealed that the combination of 0.05mg/L BA with 0.2mg/L IBA can be used to increase the number of quality shoots in *in-vitro* regeneration of *Heuchera hybrida.*

**Keywords**: *Heuchera hybrida; in- vitro propagation, plant growth regulators, shoot multiplication*.