

# **Henna Rhizardi Impatiens hawkeri cv. Sweetie Blue Star)) Using naphthalene-static acid hormones (NAA), benzyladenine (BA), and kinetin (KIN)**

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**Henna is a bestseller in the florist industry. According to the reintroduction instructions of Henna plant in the in vitro conditions, this ornamental plant was successfully cultured successfully through the cultivating of single-breeding shoots as an explants. This research was carried out as a factorial experiment in a completely randomized design with 21 treatments in 3 replications. Single shaft shoots on the Moorishig and Skoog enriched with different concentrations of  $\alpha$ -naphthalene-acetic acid (0, 0.1 and 0.5 mg / l), 6-benzylaminopurine ( 0, 0.1, 0.5 and 1 mg / L) and kinetin (0, 0.1, 0.5 and 1 mg / l). Shoots length (25.13 mm) was highest in the medium containing 0.1 mg / L a-naphthalene-acetic acid and control. The highest number of shoots (14.07) was produced in a medium supplemented with one milligram per liter of 6-benzylaminopurine with 0.5 mg / L a-naphthalene-acetic acid. One milligram per liter of 6-benzylaminoporin with 0.1 mg / l of alpha-naphthalenetic acid was superior to leaf production (57.13). Maximum root length (33.8 mm) and root number (29.13) on enriched environments with 0.1 mg / L a-naphthalenestic without 6-benzylaminopurine and kinetin Came out. Well-developed seedlings adapted to the greenhouse environment.**

**Keywords :** In vitro culture, explants, regeneration, shoots

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