EFFECT OF PRIMING ON GERMINATION CHARACTERISTICS OF LALLEMANTIA (LALLEMANTIA ROYLEANA) UNDER NORMAL SALINITY

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In order to evaluate the effect of priming on seed germination of Lallemantia (Lallemantiaroyleana L.), a factorial experiment in a completely randomized design (CRD) with two factors of NaCl in 4 levels (0, 2, 4 and 6 dS/m) and GA3 pre-soaking at 3 levels (0, 250 and 500 ppm) with three replicates was conducted. Results of analysis of variance showed that the effect of pre-soaking and salinity was not significant. According to results of means comparison table, the highest germination rate (100%) was obtained in 500 ppm of GA3 with no salinity, the highest seed vigor (12.127) was observed in control treatment and the most abnormal seedlings was measured in 250 ppm of GA3 with lowest salinity (0 dS/m). The most of normal seedlings related to 500 ppm of GA3 in 4 dS/m of NaCl. The lowest mean germination time belongs to 250 ppm of GA3 in 2 dS/m of NaCl. Generally applying 500 ppm of GA3 without any salinity for 24 hours is recommended for the best germination performance.