Effect of Gibberellic Acid and Kinetin on Seed Germination and Effect of Salinity and Effective Microbes on the Growth of Lettuce

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ABSTRACT

Seed germination and plant growth are affected by plant growth hormone and environment factors viz pH, temperature, nutrient availability and humidity. The objectives of this study were to investigate the effect of gibberellic acid and kinetin on seed germination and to study the effect of salinity and effective microbes affecting the height of stem (cm), number of leaves and number of plants alive in the growth of lettuce. Seed was treated with different concentrations of gibberellic acid and kinetin (0.5 mg/L, 1.0 mg/L, 1.5 mg/L and 3.0 mg/L). The germinated plants were treated with different concentrations of sodium chloride or sodium chloride in combination with effective microbes. It was found that 1.0 mg/L gibberellic acid induced the highest germination rate compare to others. 1.0 g/L of sodium chloride mixed with effective microbes in the soil promoted the best growth of lettuce.