Abstract:

This study was conducted to evaluate the constituents of the basal medium for in vitro multiplication of guava. A tissue culture system, using nodal explants from basal sprouts of mature trees, was employed. No amendment was needed for the level of additional phosphate concentration of Murashige and Skoog (MS) inorganic salts. The inessentiality of i-inositol was confirmed, although 100 mg/L resulted in vigorous propagules. Sucrose at 45 mg/L enhanced growth and multiplication. Culture performance was improved by 0.5x and 1.0x levels of modified White's vitamins. Benzyladenine (BA) excelled kinetin and 2-isopentenyladenine (2ip) in proliferation phase. Satisfactory rooting was induced by 1 mg/L indole-3-butyric acid (IBA) in presence of 0.1 mg/L kinetin and 1.0 g/L activated charcoal.