

Mineral Uptake By Banana Explant In Vitro

M.E.Amiri

Dept. of Hort. Uni. of Zanjan, Iran

Mineral concentration and uptake by explant in tissue culture are very important. The rate of growth is dependent upon the rate of mineral uptake. For example, the rate of banana growth decreased, because of decrease of P.uptake, or P.availability. Mineral availability in vitro is dependent upon several factors such as: kind and concentration of mineral in the medium, medium PH, medium preparation, and medium water potential.

The main mechanism of mineral movement and mineral uptake in vitro is by diffusion and mass flow. These processes are dependent upon mineral solution and water availability in the medium.