

## **Chosing of medium culture for micropropagation banana(*Musica acuminata* L. )**

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Banana could been propagated with micropropagation. There are difficulties with traditional culture and the presence of diseases of virus and fungi, such as workers has been carried out micropropagation for approching to goals of economical.

Musa has decontaminated by antiseptics, so they have cultured on the MS-modified media with supplement of regulatories growth, (IAA 3mg/L , BAP 5 mg/L). therefore they has transfered on the

- 1) solid medium
- 2) semi-solid medium
- 3) static Liquid medium
- 4)shaked Liquid medium.

### **Results:**

- 1- Comparison of solid and semi - solid media, explants has better been grown on the semi - solid medium.
- 2) Comparison of static liquid and shaked media, shaked liquid medium was better.
- 3) Comparison of semi - solid and shaked liquid media , mean of growth has been increased on the semi - solid medium
- 4) Growth of explants has decreased with low level motility ions and absorbable nutrient.
- 5) Leaves were yellowish , rooting has decreased , because explants have floated, oxygen transfer coeifficent and volume of gases have been decreased.
- 6) Mean of fresh weight has been decreased on the shaked liquid medium ,

7- Fresh weight plantlets are high level with increasing auxin because of many density rooting.

8- Apical dominance has increased with high level cytokinin , so lateral meristems have been stimulated.

9- Fresh weight and number of plantlet have increased with high level cytokinin.

10- Hormon of Cytoknin has been effected on the mechanism of proces photosynthesis, growth of leaves and increasing of lenght shoots.