

# Research on application of biofertilizers in fruits and melons ( *Cucumis melo* L.) crops.

Jui-Chang Huang<sup>1</sup>, W.J. Jiang<sup>2</sup> and Guo-Cih Lin<sup>3</sup>

Associate Horticulturist, Tainan DARES., COA., Executive Yuan<sup>1</sup>  
Assistant Horticulturist, Tainan DARES., COA., Executive Yuan<sup>2</sup>  
Assistant Horticulturist, Tainan DARES., COA., Executive Yuan<sup>3</sup>

## Abstract

Endomycorrhizae has been used in seedling nursery. However, this practice should be supplemented with appropriate amount of fertilizers. Now, no cultural medium or growth medium containing mycorrhiza is available on market. The purpose of this study was to develop a mycorrhiza added to the growth medium for seedling uses. Results indicated that best medium growth of melon plants was observed in the medium composed of Favorit:V (v/v,1:2) without inoculation of mycorrhiza, lowest growth in the CSF:V (v/v,1:2) without mycorrhizal inoculation. However, best transplant survival percentage (TN12), yield were observed in the medium composed of CSF:V (v/v,1:2) plus inoculation of mycorrhiza, highest sugar content CSF: V (v/v,1:2) plus inoculation of mycorrhiza in the fruits of TN11, not significantly different in the fruits of TN12.

**Key words :** Biofertilizer, Endomycorrhiza, melon, root-knot nematode