THE EFFECT OF DYE ORANGE II ON THE PHYSIOLOGICAL PARAMETERS AND GROWTH OF PLANT *Coleus blumei* L.

A. AVRABOU, Z. PASTROUMA,O.TSEREMEGLI, M. KORNAROS², K. ANGELOPOULOS¹ and G. LYBERATOS²

¹Laboratory of plant Physiology, Department of Biology, University of Patras ²Laboratory of Biochemical Engineering and Environmental Technology, Department of Chemical Engineering, University of Patras

ABSTRACT

The uptake from hydroponic culture and the effect of azodye Orange II on physiological parameters and growth of the plant *Coleus blumei* L. was studied. It was demonstrated that this azodye was uptaken by roots and transported to leaves provoking wilting and phytotoxicities, especially at the concentration of 40 mg/l. The concentration of the dye in the nutrient solution decreased linearky with time. Greater phytotoxicity on the roots was accompanied by a higher decrease of transpiration and relative growth.