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Asst. Prof. Dr. M. Cüneyt BAĞDATLI

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Efficiency Of Humic Acid Application On Tomato (*Solanum Lycopersicum* L.) Seedlings Growth Parameters

Adem GÜNEŞ¹ Erman BEYZİ² Oğuzhan UZUN¹ Mustafa BAŞARAN¹ Faruk TOHUMCU³ Metin Turan⁴ Başak ORUÇ¹

¹Faculty of Agriculture, Department of Soil Science and Plant Nutrition, University of Erciyes in Turkey,

²Faculty of Agriculture, Department of Field Crops, University of Erciyes in Turkey,

³Faculty of Agriculture, Department of Soil Science and Plant Nutrition, University of Iğdır in Turkey,

⁴Faculty of Engineering and Architecture, Department of Genetics and Bioengineering, University of Yeditepe in Turkey

*Corresponding Author:adem_gunes25@hotmail.com

Abstract

In this study, a widely grown in Turkey Province tomato (*Solanum lycopersicum* L.) plant, seedling growing media (peat: perlite: (2:1)) added at different doses (0, 500, 1000, and 2000 mg L⁻¹) humic acid (15% humic + fulvic acid) applications to determine the effects on seedling growth that conducted the trial greenhouse. Completely randomized design with 3 replications in each application study was carried out. The chlorophyll content and stomatal conductance measurements created after the plants were harvested and the harvested plants, stem length, root length, shoot length, stem diameter, root weight, stem weight, leaf weight were measured in root, stem and leaf dry matter amounts calculated. As a result of this study, depending on the doses of humic acid applications at different doses, stem length, root length, shoot length, stem diameter, root weight, stem weight, leaf weight increased compred to control groups. Especially, 1000 mg L⁻¹ humic acid dose led to further increases.

Keywords: Tomato, humic acid, seedling