



ORIGINAL ARTICLE

EFFECT OF BIO-FERTILIZERS AND AMINO ACIDS SPRAY ON GROWTH AND NUTRIENT CONTENTS OF TOMATO UNDER PLASTIC HOUSE CONDITIONS

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Abstract: The study was conducted during the period from September 2019 to June 2020 in one of the greenhouses belonging to the research fields in the Department of Horticulture and Landscaping, College of Agriculture, University of Anbar to investigate the effect of bio-fertilizers: T₀ (50% of recommended NPK), T₁ (100% of recommended NPK), T₂ (Myc. + 50% of recommended NPK), T₃ (Azot. + 50% of recommended NPK), T₄ (Bacil. + 50% of recommended NPK), T₅ (Myc. + Azot. + Bacil.) + 50% of recommended NPK was added in two batches, during the vegetative and flowering growth phase and spraying with amino acids with concentrations: A0 (Control), A1 (0.25 g.l⁻¹), A2 (0.5 g.l⁻¹) and A3 (0.75 g.l⁻¹) on the growth and leaf mineral content of tomato "Newton F1" under greenhouse conditions. T₅ (Myc. + Azot. + Bacil.) + 50% of recommended NPK and A3 (0.75 g.l⁻¹) had achieved the highest values for all vegetative characteristics and mineral content of leaves.

Key words: Bio-fertilizers, Mycorrhiza, Azotobacter, Bacillus, Amino acids.

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