

INFLUENCE OF MELOIDOGYNE INCOGNITA ON AMINO ACIDS CONTENTS IN
SUNFLOWER PLANTS GROWING IN SOIL INFESTED WITH AGROBACTERIUM
TUMEFACIENS

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Eleven amino acids i.e. lysine, aspartic, glutamic, serine, glycine, threonine, valine, phenylalanine, leucine and isoleucine; and tryptophan were separated from the vegetative parts of sunflower plants which were infected with either M.incognita and/or A.tumefaciens. Alanine was the only amino acids that detected from treatments where A.tumefaciens was present alone or in a combination with M.incognita.

Different trends in behaviour of amino acids concentrations in the sunflower plants as affected by the infection of either M.incognita and/or A.tumefaciens were evident. In the case of leucine and isoleucine, a high percentage of reduction in either concentrations was recorded in the presence M.incognita alone, while an opposite result was obtained when A.tumefaciens was present. However, no change in their concentrations were detected when both organisms were added.