



Effect of *Cladophora crispate* Extract on Potassium Release from Soil

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Abstract: Two soil samples were selected based on the difference in particle size distribution, included fine texture (clay loam) and coarse texture (sandy). Laboratory experiment was conducted by treating both the two samples by four concentrations of *Cladophora crispate* extract (0, 1, 2, 3 g/l) to evaluate the ability to release soluble and exchangeable potassium. The tested soil samples varied in soluble and exchangeable potassium content which ranged between (0.2-1.12) and (0.1-0.79) Meq/l for fine texture and coarse texture, respectively and greater amount for released potassium was in the concentration of 3g/l for fine which was higher in fine than coarse texture. The results showed linear increment in potassium phases (soluble, exchangeable and available) with the increase of algae extract concentration

Keywords: Available potassium, *Cladophora crispate*, algae extract, soil texture
