Abstract

The content of nitrogen and potassium in vermicompost generally low, i.e. less than two percent, so that still require the addition of another source to meet crop requirement. Potassium nitrate to form the ions $K^+$ and $NO_3^-$ after dissolved in water so as to be readily available to plants. The study aims to determine the effect of the addition of potassium nitrate in vermicompost medium to the concentration of nutrients in the shoot of lettuce. Research conducted in the form of pot experiment. The treatment consists of 12 levels of concentration or nutrient solution electrical conductivity with the addition of potassium nitrate. The results of experiment indicated that the concentrations of P and K in plant shoot tissue were significantly increased linearly with the provision of $KNO_3$. The concentration N, Ca, Mg, S, Na, Fe, Mn, Cu, Zn, Al and B in shoot tissue of plants is not affected $KNO_3$.

[Key words : Potassium nitrate, vermicompost, electrical conductivity, lettuce]