

Abstract

Research Title : Determine of Heavy Metal Contents in Fresh Vegetable by Using Neutron Activation Analysis Technique

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Year : 2558

Vegetables may contaminate with heavy metals that are toxic to the body. Those of them come from soil, water and air, which is the cultivation of plants. In addition, each vegetable has the capacity to accumulate heavy metals or elements of various kinds. This study aimed to compare the results of analyzing heavy metal by two techniques that were Neutron Activation Analysis (NAA) and Atomic Absorption Spectrometry (AAS) techniques. Both of them were used to analyze heavy toxic metals. (Cd, Co, Fe, Pb, Cr, Zn) and others in vegetables samples. The study found that heavy metals concentration were Co, Fe, Cr could be analyzed by NAA and Co, Fe, Zn have been found by AAS. The results showed that both techniques have shown the same results of heavy metals that were Co, Fe and different in Cr and Zn. For the same results of heavy metals, showed the less of standard deviation and significantly not difference at 0.05.