

ABSTRACT**Phytoremediation of Shoot Culture *Brassica chinensis* L for Co²⁺ Metal in Various Concentrations**

Shoot culture of *Brassica chinensis* L was treated in media containing Co²⁺ with various concentration (0, 10, 20 and 30 ppm Co²⁺). Each group consists of a number of culture bottles that were grown for three weeks. Growth index and many leaves will be measured on each week to see the stability of the shoot culture. The ability of *Brassica chinensis* L to remediate the cobalt in the media will be measured by analyzing the Co²⁺ residue and it's accumulation in the shoot culture biomass with Atomic Absorption Spectrophotometer instrument. The accumulation of Co²⁺ in *Brassica chinensis* L biomass was 252,8±23,4 µg/g DW, 898,3±42,1 µg/g DW, and 1465±96.3 µg/g DW for shoot culture group 10, 20, and 30 ppm Co²⁺ respectively. The highest accumulation is 1465±96.3 µg/g DW or 0.15% w/w DW. This accumulation was higher than 0.1% w/w DW and proved that the shoot culture of *Brassica chinensis* L have an ability to be hyper accumulator plant.