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The Content Of Lead (Pb) Heavy Metal In Mangrove (RhizophoraMucronata) at Mlaten Village, Indonesia

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Abstract: In this study, heavy metal content (Pb) in Rhizophora mucronata mangrove that grows in Mlaten Village is analyzed with the average Pb content on the water in three research stations. The accumulation of heavy metal content in roots is higher than in stems and leaves. There are three types of measurements assessed in this study such as Bioconcentration Factor value (BCF; the ratio of heavy metal concentrations in roots or leaves with sediment), Translocation Factor (TF; the ratio of heavy metal concentration in leaves and roots) and Phytoremediation (FTD). The BCF value in station 1 has an average value of 0.63 while in station 2 is 0.78 and in station 3 is 0.68. The TF average value in station 1 is 0.20 and in station 2 is 0.17 while in station 3 is 0.13. Whereas, the FTD value in station 1 has an average value of 0.43 and station 2 shows an average value of 0.61 while in station 3 is 0.55.

Keywords:heavy metal content, mangrove, phytoremediation, bioconcentration factor, translocation factor.

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