ABSTRACT

MUHAMMAD BAHRUDDIN SEPTIANTO. <u>Inhibition Activity test from Methanol Extract</u>, Ethyl Acetate Fraction, and *n*-Hexane Fraction of <u>Muntingia calabura</u> L. Leaves and Stem Bark Regional Origin Sukabumi, <u>West Java.</u> Skripsi. Jakarta: Program Studi Kimia, Faculty of Mathematics and Science, State University of Jakarta, 2016.

This study was conducted to obtained extract, fraction dan enzyme inhibition test from *Muntingia calabura* L. leaves and stem bark. Methanol extract, n-hexane fraction and ethyl acetate fraction of *Muntingia calabura* L. leaves and stem bark's α -glukosidase enzyme inhibition activity is tested *in vitro* using p-nitrophenyl- α -glukopyranose substrate. α -glukosidase enzyme inhibition activity's result shows that methanol extract and ethyl acetat fraction can inhibit the α -glukosidase enzyme's activity. IC₅₀ value of methanol extract and ethyl acetat fraction from leaves is 14,72 ppm and 3,24 ppm. IC₅₀ value of methanol extract and ethyl acetate fraction from stem bark is 5,65 ppm dan 2,77 ppm, while n-hexane fraction doesn't have any inhibition activity..

keyword: *Muntingia calabura* L., α-glukosidase enzyme inhibition activity, *in vitro*