**ANTIMICROBIC TEST OF ETHANOL EXTRACT OF CASSAVALEAVES (*Manihot esculenta* Crantz) AGAINST *Staphylococcus***

***aureus*, *Pseudomonas aeruginosa*, AND *Candida albicans***

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***ABSTRACT***

*Microbial control is important to prevent the spread of disease and infections, including antibiotic therapy. However the improrer doses of antibiotic and times therapy could occur resistance of microbial. One of the plants that has alot of benefits and high nutritional content is cassava leaves. Cassava leaves contain secondary metabolites which can be used as antimicrobials. The objective of this research was to determine antimicrobial bioactivity of ethanol leaves extract of cassava against Staphylococcus aureus, Pseudomonas aeruginosa, and Candida albicans. The research stages included preparation ethanol leaves extract of cassava using percolation method, phytochemical screening, and activity test ethanol extract of cassava leaves against Staphylococcus aureus, Pseudomonas aeruginosa, and Candida albicans with concentrations 500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml, 100 mg/ml, 50 mg/ml, 25 mg/ml, 12.5 mg/ml, 6.25 mg/ml, 3.125 mg/ml, 1.56 mg/ml. Diameter of zone inhibition was collected and analyzed using ANOVA method, then continued with Duncan test. The results showed that ethanol extract of cassava leaves contained alkaloids, flavonoids, saponins, tannins, glycosides, and steroids/triterpenoids which had activities as antimicrobial. Minimum Inhibition Concentration (MIC) from ethanol extract of cassava leaves againstStaphylococcus aureus, was of 25 mg/ml with diameter of zone 11.16 mm, Pseudomonas aeruginosa was of 50 mg/ml with diameter of zone 7.66 mm, and at Candida albicans was 300 mg/ml with diameter of zone 13.33 mm. Based on Duncan test on Staphylococcus aureus showed significant differences at concentrations of 500 mg/ml, 400 mg/ml, 300 mg/ml, whereas in Pseudomonas aeruginosa, and Candida albicans showed no significant difference among cach concentration. It included that ethanol extract of cassava leaves had a better activity against of Staphylococcus aureus.*

***Keywords : Cassava Leaves Ethanol Extract, Antimicrobial, Staphylococcus aureus, Pseudomonas aeruginosa, Candida albicans***