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Effect of ethanol concentration on seed extracts papaya (*Carica papaya* L.) in inhibition of growth of *Escherichia coli*

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Papaya is known as a multipurpose plant for almost all the plants useful to humans, one of which is the papaya seeds are used as medicine for roundworms, indigestion, diarrhea, skin diseases, male contraception and raw materials into the wind. This study aims to evaluate the efficacy and the effect of different concentrations of 1%, 3% and 5% ethanol extract of papaya seeds in inhibiting the growth of bacteria *Escherichia coli*. The study was a laboratory experiment with post-test design with control group. The research sample using black papaya seeds from the village Tompaso II, District Tompaso Minahasa, North Sulawesi Province. The ethanol extract of papaya seeds obtained from the maceration of 50 grams of dried papaya seeds powder using ethanol 70%, followed by a test solution of each concentration of 1%, 3% and 5%. Test of inhibition is done by using a paper disc soaked at each concentration and then placed on a nutrient agar which had been inoculated with the bacterium *Escherichia coli* and then incubated in an incubator at a temperature of 37 oC for 1×24 hours, 2×24 hours and 3×24 hours and the diameter of clear zone formed was measured using a scale ruler mm. The data were analyzed descriptively continued with one way Anova. The results showed difference in the effectiveness and influence of the concentration of 1%, 3% and 5% ethanol extract of papaya seeds in inhibiting the growth of bacteria *Escherichia coli*.

Biography

Selfie Petronela Joice Ulaen has completed her Master's degree in the field of Public Health at the University Samratulangi Manado in 2004. She is a Member of the Senate Health Polytechnic Manado since 2004 and Head of Department of Pharmacy at Health Polytechnic Manado since 2010.

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