

## ABSTRACT

Annatto (*Bixa orellana* L.) is a medicinal plant, it can be used to treat diarrhea and as antibacterial. Annatto bark contains ethereal oil, resin, tannins, cellulose. Tannin have effect as antibacterial, astringent and antidiarrhea. The aim of this research were to identify tannin in ethanol extract of annatto bark and also to know antibacterial potency from ethanol extract of annatto bark against *Escherichia coli* with contact bioautography method.

This research is a pure experimental research with a one-way pattern of completely randomized design. Identify the existence of tannin on ethanol extract of annatto bark was used Thin Layer Chromatography (TLC) method with silica gel GF 254 as stationary phase and ethyl acetate, methanol, water (100 : 13,5 : 10)v/v as mobile phase. The antibacterial potency test from ethanol extract of annatto bark against *E. coli* was done with contact bioautography method.

The result showed that on ethanol extract of annatto bark has the tannin. The antibacterial potency test with contact bioautography method didn't show any antibacterial potency from ethanol extract of annatto bark.

Key words : antibacterial potency, annatto bark (*Bixa orellana* L.), *Escherichia coli*, contact bioautography.