

## ABSTRACT

### ISOLATION AND CHARACTERIZATION FLAVONOID COMPOUND FROM ACTIVE FRACTION OF ASHOKA (*Polyalthia longifolia* (Sonn.) Thwaites) LEAVES EXTRACT TO ANTIOXIDANT

By:

**Sayyidatus Salmi(BP: 1110412023)**

**Supervised by Bustanul Arifin, M.Si and Dr. Afrizal**

The isolation of flavonoid compound from ashoka leaves (*Polyalthia longifolia* (Sonn.)Thwaites) has been done. The isolation was done with maceration method using hexane, ethyl acetate and methanol as the solvent. Antioxidant activity of each extract was determine using free radikal 1-1-diphenyl-2-pikrilhidrazil (DPPH) method that methanol extract was the most active as the antioxidant with the IC<sub>50</sub> value was 24,99 mg/L. Methanol extract was coloum chromatographed by using silika gel as the stasionary phase and hexane, ethyl acetate and methanol as the mobhile phase with SGP method. The isolated compound is a flavonoid, formed yellow solid and has hydroxyl groups at C4', C7 and C5.

**Key Words:** *Polyalthia longifolia* (Sonn.)Thwaites., Flavonoid, Antioxidant