

**ISOLASI DAN KARAKTERISASI ALKALOID DARI BATANG
GLODOKAN (*Polyalthia longifolia*) DAN UJI ANTIOKSIDAN**

SKRIPSI SARJANA KIMIA



Oleh :

NELI ASRIANI

1210411011

**Pembimbing:
Prof. Dr. Sanusi Ibrahim
Dr. Adlis Santoni**

JURUSAN KIMIA

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

UNIVERSITAS ANDALAS

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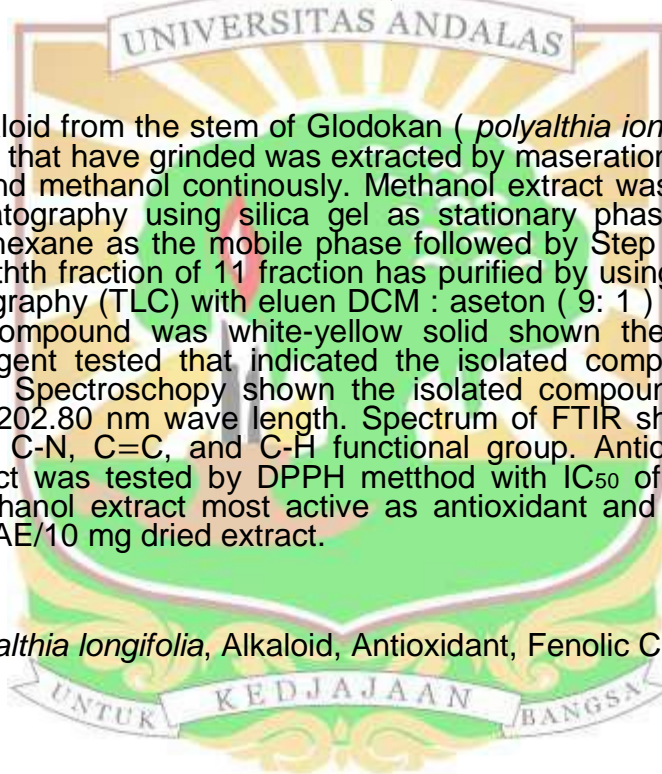
ABSTRACT

Isolation and Characterization of Alkaloid from Glodokan Stem (*Polyalthia longifolia*) and Antioxidant Test

By

Neli Asriani (1210411011)

Prof. Dr. Sanusi Ibrahim*, Dr. Adlis Santoni*



Isolation of alkaloid from the stem of Glodokan (*polyalthia iongifolia*) has been done. The stem that have grinded was extracted by maseration using n-hexane, ethyl acetate and methanol continously. Methanol extract was fractination with colomn chromatography using silica gel as stationary phase and methanol, ethyl acetat & hexane as the mobile phase followed by Step Gradient Polarity (SGP). The eighthth fraction of 11 fraction has purified by using preparative thin layer chromatography (TLC) with eluen DCM : aseton (9: 1) as mobile phase. The isolated compound was white-yellow solid shown the yellow node in dragendorf reagent tested that indicated the isolated compound is alkaloid. Analysis of UV Spectroschopy shown the isolated compound has maximum absorbancy at 202.80 nm wave length. Spectrum of FTIR shown the isolated compound has C-N, C=C, and C-H functional group. Antioxidant activity of methanol extract was tested by DPPH method with IC₅₀ of 32.62 mg/L that shown the methanol extract most active as antioxidant and phenolic content was 1882.38 GAE/10 mg dried extract.

Keyword: *Polyalthia longifolia*, Alkaloid, Antioxidant, Fenolic Content, IC₅₀