

ABSTRACT

Risnawati Usman: 2015. "Phytochemical Screening of Alkaloid of Bitter Grape (*Tinospora Crispa*. L Miers) Leaves from Gorontalo using Thin-layer Chromatography." Scientific Writing. Study Program of DIII Pharmacy. Department of Pharmacy. Faculty of Health Sciences and Sports. State University of Gorontalo. The principal supervisor was Dr. Widy Susanti Abdulkadir, M.Si., Apt and the co-supervisor was Hamsidar Hasan, S.Si., M.Si., Apt.

This research was a laboratory experimental research that aimed at identifying alkaloid compound in Bitter Grape (*Tinospora Crispa*. L Miers) leaves from Gorontalo using thin-layer chromatography. The extraction method used in this research was maceration using methanol during 3 x 24 hours, by alkaloid preliminary test using mayer's reagent. The test result showed that there was a white precipitate of mayer's reagent, and the sample positively contained alkaloid.

The test result of Thin-layer Chromatography showed that methanol extract of bitter grape leaves contained alkaloid. By using silent phase of GF₂₅₄ and using eluent: Methanol : Ethyl acetate (4 : 1), there was a good separation, and it resulted strong staining orange under UV light through dragendrof reagent spraying with R_f as much as 0,56. This showed that bitter grape leaves contained Alkaloid.

Keywords: Alkaloid, *Tinospora Crispa*. L Miers, KLT.

