

## ABSTRACT

**Olivia Bantahari: 2015. "Identification of Alkaloid of Methanol Extract of Avocado (*Persea Americana* Mill) Leaves from Bolaang Mongondow Utara using Thin-layer Chromatography Method." Scientific Writing, Department of Pharmacy, Faculty of Health Sciences and Sports, State University of Gorontalo. The principal supervisor was Dr. Widysusanti Abdul Kadir, M.Si., Apt, and the co-supervisor was Hamsidar Hasan, S.Si., M.Si., Apt.**

Avocado (*Persea Americana* Mill) is one of plants than has benefit as a traditional drug. This research aimed at identifying alkaloid content in avocado (*Persea Americana* Mill) leaves from Bolaang Mongondow Utara using thin-layer chromatography method. 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 GF<sub>254</sub> and using eluent: Methanol : Ethyl acetate (9 : 5), there was a good separation, and it resulted strong staining orange under UV light 366 nm through dragendrof reagent spraying with Rf as much as 0,8. Therefore, it can be concluded that avocado leaves contained Alkaloid.

Keywords: Avocado, Maceration, Alkaloid, Thin-layer Chromatography

