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## The Effect of Extraction Methods of Bawang Dayak (Eleutherine Palmifolial. MERR) Against TLC Profiles and Sunscreen Activities

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**Abstract:** A research has been conducted on the effect of extraction methods of Bawang Dayak (Eleutherine palmifolia (L.) Merr) against TLC profiles and sunscreen activity. The study aims to determine the effect of extraction methods against yield, TLC profile, and sunscreen activities. The Sample was extracted using several extraction methods (maceration, reflux, and soxhlet) with different polarity solvent (n-hexane, ethyl acetate, ethanol, dan methanol) and single solvent (methanol), respectively. Yield value obtained methanol extract (single solvent) are 8.027% maceration, 6.943% reflux, and 10.694% soxhlet.N-hexane extract are 1.572% maceration, 1.251% reflux, 2.146% reflux. Ethyl acetate extract were 2.141% maceration, 0.966% reflux 1.681% soxhlet. Ethanol extract are 3.537% maceration, 3.280% reflux, 3.974% soxhlet. Methanol extract are 1.999% maceration, 2.553% reflux, 2.682% soxhlet.Furthermore, the determination of the TLC profile from all methods using comparisons N-hexane: ethyl acetate among other; N-hexane extract was 6-7 spots (3:1), ethyl acetate extract was 9 spots(2:1), methanol extract (single solvent) was 8 spots (2:1). Determination TLC profile using comparisons chloroform:methanoleluent namely; ethanol extract was 9 spots (7:1), methanol extract was 5 spot (2:1), and methanolextract (single solvent)was 8 spots (5:1).Sunscreen activityfor ethyl acetate extract (using soxhlet methods)categorizedassun blockand otheras extra protective.

Keywords : *Eleutherine palmifolia* (L.) Merr, extraction methods, TLC Profile, sunscreen activity.

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