

ISOLATION AND IDENTIFICATION SECONDARY METABOLITE COMPOUNDS EXTRACT OF N-HEXANE FROM LEAF OF MANILKARA ZAPOTA

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ABSTRACT

This research aims to isolate and identify the secondary metabolite compound contained in the n-hexane extract of leaf of Manilkara Zapota. Isolation is done in several stages; extraction, fractionation, purification, and identification. The result was obtained as pure an isolate in white needle crystal with a melting point of 188-190°C. The isolate gives a positive response to Lieberman-Burchard reagent test. Isolate was identified by analyzing the infrared spectrum which showed the wave number (cm-1) are: 1026,13 (CO); 1458.18 and 1367.53 (CH₂ and CH₃); 1647,21 (C = C); 2947,23 (C-H); 3442,94 (OH alcohol). Base on reagent test and FTIR data, it is suggested, that isolate is terpenoid compound.

KEYWORDS: *Isolation, M. Zapota, FTIR, Terpenoids*