

## ABSTRAK

### Isolasi dan Karakterisasi Senyawa Triterpenoid dari Kulit Batang Ambacang (*Mangifera Foetida* L.) serta Uji Toksisitas Brine Shrimp Letality Test (BSLT)

Oleh : Sabariah, S.Si

(dibawah bimbingan Dr. Mai Efdi dan Dr. Adlis Santoni)

Isolasi senyawa triterpenoid dan uji sitotoksik dari kulit batang *Mangifera foetida* L. telah dilakukan dengan metoda *Brine Shrimp Lethality Test* (BSLT). Kulit batang *Mangifera foetida* L. diekstrak dengan pelarut yang berbeda yaitu n-heksan, etil asetat dan metanol. Berdasarkan data spektroskopi (IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR 1D and 2D), senyawa hasil isolasi adalah Mangiferenes B, C<sub>30</sub>H<sub>47</sub>O<sub>2</sub>. Berdasarkan uji sitotoksik dengan *Brine Shrimp Letality Test* menunjukkan bahwa ekstrak n-heksan, etil asetat, metanol dan senyawa hasil isolasi kulit batang *Mangifera foetida* L. bersifat toksik dengan nilai LC<sub>50</sub> 471.9543; 534.5209, 678.4421 dan 22.1615 µg/mL).

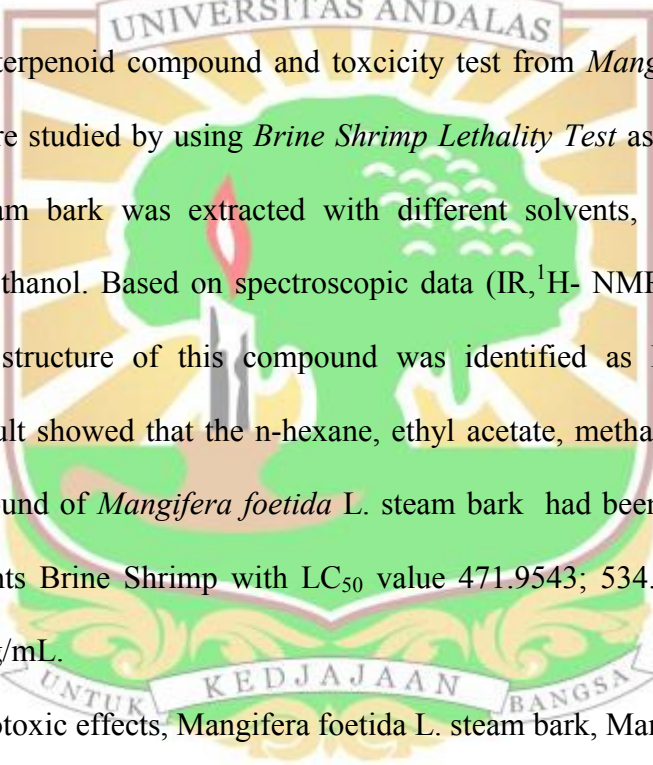
**Kata Kunci:** Sitotoksik, Kulit batang *Mangifera foetida* L., Triterpenoid, *Mangiferenes B*

## ABSTRACT

**Isolation and characterization of triterpenoid compound from Ambacang  
(*Mangifera foetida* L.) Stem bark and Toxicity Test  
*Brine Shrimp Lethality Test* (BSLT)**

By: Sabariah, S.Si

(Supervised Dr. Mai Efdi dan Dr. Adlis Santoni)



Isolation of triterpenoid compound and toxicity test from *Mangifera foetida* L. steam bark were studied by using *Brine Shrimp Lethality Test* assays. *Mangifera foetida* L. steam bark was extracted with different solvents, n-hexane, ethyl acetate and methanol. Based on spectroscopic data (IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR 1D and 2D), the structure of this compound was identified as Mangiferene B, C<sub>30</sub>H<sub>47</sub>O<sub>2</sub>. Result showed that the n-hexane, ethyl acetate, methanol extracts and isolated compound of *Mangifera foetida* L. steam bark had been potential to be cytotoxic againts Brine Shrimp with LC<sub>50</sub> value 471.9543; 534.5209; 678.4421 and 22.1615 µg/mL.

**Keywords:** cytotoxic effects, *Mangifera foetida* L. steam bark, Mangiferene B