

## **SKRIPSI SARJANA FARMASI**

### **UJI TOKSISITAS EKSTRAK DAUN MANGGA BACANG (*Mangifera foetida* L.) DENGAN METODE BRINE SHRIMP LETHALITY TEST (BSLT)**



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## **ABSTRAK**

### **UJI TOKSISITAS EKSTRAK DAUN MANGGA BACANG (*Mangifera foetida L.*) DENGAN METODE BRINE SHRIMP LETHALITY TEST (BSLT)**



Mangga bacang (*Mangifera foetida L.*) merupakan sumber senyawa aktif alami mangiferin. Mangiferin memiliki beberapa efek farmakologi yaitu sebagai antiinflamasi, analgesik, antitumor, antivirus, antihelmintik, immunomodulator, antifungi dan antibakteri. Penelitian ini bertujuan untuk mengidentifikasi efek toksisitas akut ekstrak daun Mangga Bacang (*Mangifera foetida L.*) terhadap *Artemia salina* Leach dan menentukan nilai *Lethal Concentration 50* (LC<sub>50</sub>). Uji toksisitas dilakukan dengan metode *Brine Shrimp Lethality Test* (BSLT). Uji ini terdiri dari lima perlakuan konsentrasi yaitu 1000 ppm, 300 ppm, 100 ppm, 30 ppm dan 10 ppm beserta kontrol yang masing-masing dilakukan dengan 5 kali pengulangan. Diperoleh nilai *Lethal Concentration 50* (LC<sub>50</sub>) ekstrak daun Mangga Bacang yakni 892,135 ppm. Nilai LC<sub>50</sub> kecil dari 1000 µg/mL sehingga dapat disimpulkan bahwa ekstrak daun Mangga Bacang (*Mangifera foetida L.*) memiliki efek toksik terhadap *Artemia salina*.

Kata kunci : daun *Mangifera foetida L*, toksisitas, LC<sub>50</sub>, BSLT

## **ABSTRACT**

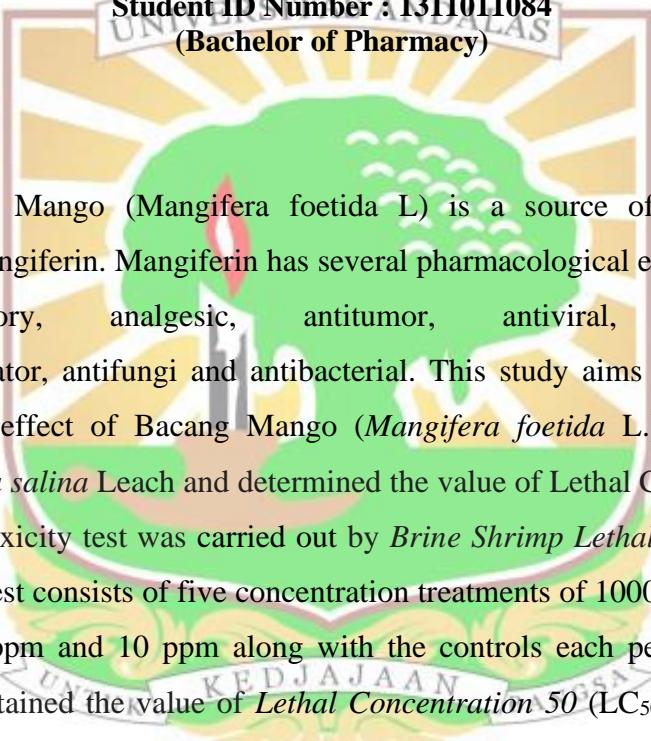
### **THE TOXICITY TEST OF BACANG MANGO (*Mangifera foetida L.*) LEAVES EXTRACT BY BRINE SHRIMP LETHALITY TEST METHOD**

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Bacang Mango (*Mangifera foetida L.*) is a source of natural active compounds mangiferin. Mangiferin has several pharmacological effects namely as anti-inflammatory, analgesic, antitumor, antiviral, antihelmintic, immunomodulator, antifungi and antibacterial. This study aims to indentify the acute toxicity effect of Bacang Mango (*Mangifera foetida L.*) leaves extract toward *Artemia salina* Leach and determined the value of Lethal Concentration 50 (LC<sub>50</sub>). The toxicity test was carried out by *Brine Shrimp Lethality Test* (BSLT) method. This test consists of five concentration treatments of 1000 ppm, 300 ppm, 100 ppm, 30 ppm and 10 ppm along with the controls each performed with 5 repetitions. Obtained the value of *Lethal Concentration 50* (LC<sub>50</sub>) leaves extract of Bacang Mango that is 892,135 ppm. The value of LC<sub>50</sub> is less than 1000 µg/mL so that it can be conclude that leaves extract of Bacang Mango (*Mangifera foetida L.*) has toxic effect toward *Artemia salina*.

**Keywords :** *Mangifera foetida L* leaves, toxicity, LC<sub>50</sub>, BSLT