

- Galuh Pidi

- JAMBI

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# SKRIPSI

IDA AYU KADE MASTINI

## ISOLASI ASAM GALAT DARI DAUN JAMBU BIJI *(Psidium guajava L.)*



FAKULTAS FARMASI UNIVERSITAS AIRLANGGA  
BAGIAN ILMU BAHAN ALAM  
SURABAYA

2004

**Lembar Pengesahan**

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**(*Psidium guajava* L.)**

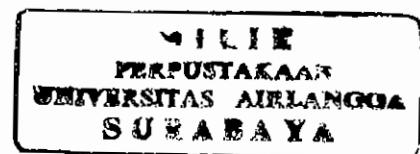
**SKRIPSI**

Dibuat Untuk Memenuhi Syarat  
Mencapai Gelar Sarjana Farmasi Pada  
Fakultas Farmasi Universitas Airlangga

2004

Oleh :

**IDA AYU KADE MASTINI**  
**NIM : 050012321**



Disetujui Oleh :

Pembimbing Utama

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Idha Kusumawati, S.Si., M.Si.  
NIP. 132133958

Pembimbing Serta

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Drs. Abdul Rahman, M.Si.  
NIP. 131653432

## **ABSTRACT**

### **Gallic Acid from Leaves of *Psidium guajava* L.**

Gallic acid is one of the substance which occur in *Psidium guajava* L. Gallic acid is an antivirus, antioxidant, antibacterial, anti-inflammatory, antimutagenic and antihiperglemic agent. The aim of this research is to isolate and identify gallic acid from *Psidium guajava* L. leaves.

Isolation is carried out by maceration method with increasing polarity of solvent using *n*-hexane, ethyl acetate and methanol. The separation of the component is achieved by vacuum liquid chromatography using silica gel and ethyl acetate-methanol with 10% v/v gradient as a solvent. The fraction II were purified with TLC preparative and one spot was obtained in second TLC preparative.

Qualitative analysis using TLC densitometry acquired 285 nm as the identically  $\lambda$  maximum with gallic acid standard, and the match factor is 993, 1662.

**Keyword:** Gallic Acid, Vacuum Liquid Chromatography, TLC Preparative, TLC-Densitometry, *Psidium guajava* L.