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IDA AYU KADE MASTINI

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



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PERPUSTAKAAN
UNIVERSITAS AIRLANGGA
SURABAYA

FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
BAGIAN ILMU BAHAN ALAM
SURABAYA
2004

Lembar Pengesahan

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

SKRIPSI

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

2004

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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 antihyperglycemic 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 λ 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.