

- HEMORRHAGIC FEVER

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**SKRIPSI**

**WASIATUL ULUM**

**PENGARUH PEMBERIAN EKSTRAK ETANOL 70%  
DAUN JAMBU BIJI (*PSIDIUM GUAJAVA* L)  
TERHADAP KADAR GM-CSF TIKUS**

**MILIK  
PERPUSTAKAAN  
UNIVERSITAS AIRLANGGA  
SURABAYA**



**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA  
BAGIAN ILMU BAHAN ALAM  
SURABAYA  
2004**

Lembar Pengesahan

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**Dibuat Untuk Memenuhi Syarat Mencapai Gelar Sarjana Farmasi Pada  
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2004**

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## ABSTRACT

### **The Influence of 70% ethanol extract of guava leaf (*Psidium guajava* L.) on the GM-CSF Level at Rats**

Harijono Achmad (2001) have proved that extract of guava (*Psidium guajava* L.) leaf can increase the amount of trombocyte in DHF patient with thrombocytopenia. GM-CSF is a cytokine that stimulate thrombopoiesis so it can be used to be an indicator to know the influence of extract of *Psidium guajava* L. leaf to thrombopoiesis. Quercetin, a compound that suggest had activity to increase trombocyte was used as a marker. The aim of this research is to know the influence of 70% ethanol extract of *Psidium guajava* L. leaf to GM-CSF by in vivo at rats. Sample used in this research was 70% ethanol extract of *Psidium guajava* L. leaf which was suspended in 0,5% CMC-Na solution and arranged in 3 doses : dose 1 2,724 mg/200 g BW, dose 2 5,407 mg/200 g BW, and the thirth is 10,813 mg/200 g BW (each dose equivalent with 0,067 mg, 0,133 mg, 0,266 mg quersetin respectively). The extract was given orally during 6 days successively, and blood was taken by intracardial on seventh. Serum was taken to be measured with ELISA method to get the Optical Density (OD) of GM-CSF. The result showed that 70% ethanol extract of *Pisidium guajava* L. leaf dose I (2,724 mg/200 g BW), dose 2 (5,407 mg/200 g BW), dose 3 (10,813 mg/200 g BW) can increase GM-CSF. We suggest furthermore research to know the active compound.

Keywords : *Psidium guajava* L., Dengue Haemorrhagic Fever, Trombocytopenia, Granulocyte-Macrophage Colony Stimulating Factor, Enzyme Linked ImmunobSorbent Assay.