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DEWI RAHMAWATY MOO

**UJI AKTIVITAS EKSTRAK ETANOL 70%
DAUN JAMBU BIJI (*PSIDIUM GUAJAVA* L)
TERHADAP KADAR TNF- α DALAM SERUM TIKUS**



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

**MILIE
PERPUSTAKAAN
UNIVERSITAS AIRLANGGA
SURABAYA**

Lembar Pengesahan

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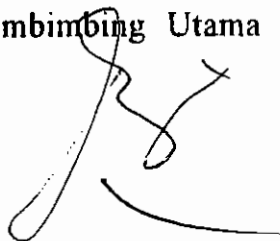
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2004

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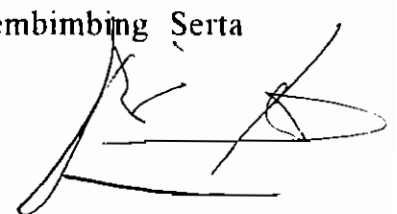
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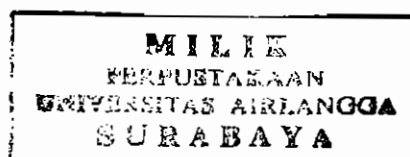


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ABSTRACT

The Influence of 70% Ethanol Extract of *Psidium Folium* to TNF- α in Rats

Dewi Rahmawaty Moo

Psidium guajava L is one of traditional plant that use for medication. The previous study has reported that extract of *psidii folium* could be used to treat dengue haemorrhagic fever (DHF). Harijono Achmad (2001) have proved that extract of guava (*Psidium guajava* L.) leaf can increase the amount of trombocyte in DHF patient. But anti-DHF mechanism of extract, has not yet known. TNF- α is cytokine that exerts an interferon-like protective effect against viruses and augments expression of class I MHC molecules, potentiating CTL-mediated lysis of virally infected cell. Quercetine that suggest had activity as an antiviruses, used as a marker. The aim of this research is to know the influence of 70% ethanol extract of *Psidium guajava* L. leaf to TNF- α rats. Sample used in this research is 70% ethanol extract of guava leaf which have suspended in 0,5% CMC-Na solution and arranged in 3 doses : 2,698 mg/200 g BW; 5,396 mg/200 g BW, and 10,792 mg/200 g BW (each dose equivalent with 0,0662 mg, 0,1325 mg, 0,2650 mg quersetin respectively). The sample was given orally during 6 days successively, blood was taken by intracardial on seventh. Serum was taken to be measured with ELISA method to get the Optical Density (OD) of TNF- α . The result showed that 70% ethanol extract of guava leaf dose 2,698 mg/200 g BW and 10,792 mg/200 g BW have activity to increase TNF- α , and showed significant difference from the negative control. Meanwhile dose 5,396 mg/200 g BW extract of guava leaf wasn't showed significant difference from the negative control. We suggest furthermore research to know the active compound.

Keywords : *Psidium guajava* L., Dengue Haemorrhagic Fever, Tumor Necrosis Factor Alpha, viruses, class I MHC, Cytotoxic T Lymphocytes, Enzyme Linked ImmunobSorbent Assay.