

- ANTIMALARIALS
- LOGINIFOLIA F
- PLASMA LUM

KL

FF.29/65

010

U

SKRIPSI

ENDAH SRI UTAMI

**UJI AKTIVITAS ANTIMALARIA
EKSTRAK METANOL DAN DIKLORMETAN (DCM)
KULIT BATANG *FAGRAEA FRAGRANS ROXB.*
TERHADAP *PLASMODIUM BERGHEI* SECARA
IN VIVO PADA MENCIT**

MILIE
PERPUSTAKAAN
UNIVERSITAS AIRLANGGA
SURABAYA



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

Lembar Pengesahan

UJI AKTIVITAS ANTIMALARIA EKSTRAK METANOL DAN DIKLORMETAN (DCM) KULIT BATANG *FAGRAEA FRAGRANS ROXB.* TERHADAP *PLASMODIUM BERGHEI* SECARA *IN VIVO* PADA MENCIT

SKRIPSI

**Dibuat untuk memenuhi syarat
Mencapai gelar sarjana farmasi pada Fakultas Farmasi
Universitas Airlangga
2004**

Oleh :

**Endah Sri Utami
NIM : 050012251**

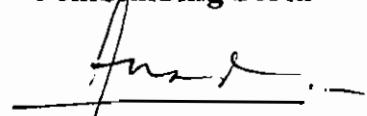
Disetujui Oleh :

Pembimbing Utama



**Dra. Aty Widyawaruyanti, MSi.
NIP. 131 877 884**

Pembimbing Serta



**Drs. H. Achmad Fuad, MS.
NIP. 130 937 972**

ABSTRACT

Fagraea fragrans Roxb. is empirically used as antimalarial drug in Malacca. Methanol and DCM extract of *Fagraea fragrans* Roxb. were used to study antimalarial effect using *in vivo* model, Peter's test (*The 4-Day suppressive test of blood schizontocidal action*).

Male mice (20 – 30 g body weight) were used in this experiment. Blood from donor mice with parasitemia \geq 20% were diluted in alceivers medium (1 : 3). Each mice received 0,1 – 0,2 ml parasite suspension intraperitoneally.

The plant extract were suspended with 10% DMSO and 0,5% CMC Na. The dose ranging 100 – 1000 mg/kg body weight. The extract was administered daily from initial day after infection for four days by oral route. In the D₀ – D₆ blood was taken from tail and then stained with Giemsa, and parasitised red cells were counted.

Treated animals showed a lower parasitemia compared with untreated animals. Both methanol and DCM extract were active againts *Plasmodium berghei*, it showed inhibition up to 76,78% for methanol extract and 64,37% for DCM extract. ED₅₀ value was calculated from log dose / probit activity. ED₅₀ of methanol extract of *Fagraea fragrans* Roxb. was 653,4022 mg/kg body weight, and ED₅₀ of DCM extract of *Fagraea fragrans* Roxb. was 585,3417 mg/kg body weight.

Key words : *Fagraea fragrans* Roxb., Loganiaceae, *Plasmodium berghei*, antimalarial activity, Peter's test.