

- ANALGESICS
- NONSTEROIDAL ANTI-INFLAMMATORY AGENTS

SKRIPSI

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**PERBANDINGAN AKTIVITAS ANALGESIK
ANTARA ASAM *o*-METOKSISINAMAT DENGAN
ASAM ASETILSALISAT
DENGAN METODE *WRITHING TEST***

MILIK
PERPUSTAKAAN
UNIVERSITAS AIRLANGGA
SURABAYA



**LABORATORIUM SINTESIS FARMASI
FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
SURABAYA
2004**

Lembar Pengesahan

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SKRIPSI

**Dibuat Untuk Memenuhi Syarat Mencapai Gelar Sarjana Farmasi
Pada Fakultas Farmasi Universitas Airlangga
2004**

Oleh

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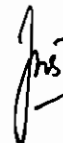
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ABSTRACT

An effort to develop the new drug candidate from NSAIDs group have been done by synthesize the *o*-methoxycinnamic acid is predicted has analgesic activity. Analgesic activity was tested in mice using pain induced writhing method. Ten mice per group were administered 0.6% acetic acid via intraperitoneal injection. The test compound was administered intraperitoneal as CMC suspension 30 minutes before acetic acid administration. The response of drug – treated animals measured 5 minutes after injection of acetic acid for 30 minutes periods. The results are exhibited and expressed as median effective dose (ED_{50}) based on log dose versus pain inhibition percentage curve as calculated by regression log x analysis.

o-methoxycinnamic acid was exhibited pain inhibitory activity represented by ED_{50} 76,22 mg/kg, while acetylsalicylic acid, as reference, has ED_{50} 83,38 mg/kg. The analgesic activity of *o*-methoxycinnamic acid, was higher than acetylsalicylic acid.

Keyword : Analgetic activity, Writhing test, *o*-methoxy cinnamic acid