

... BIO TRANSFORMATION (METABOLISMA)

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SKRIPSI

ADITYO SULASANTO

**BIOTRANSFORMASI PIROKATEKOL DENGAN
KULTUR SUSPENSI SEL *Solanum mammosum* L.**



**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
Fakultas Farmasi Universitas Airlangga**

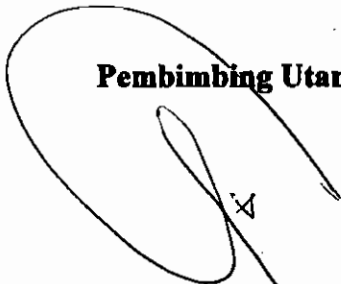
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**ADITYO SULASANTO
NIM: 059912146**

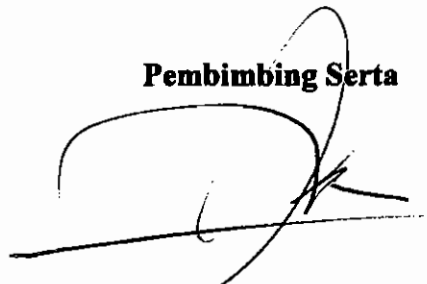
**Skripsi ini telah disetujui
tanggal 27 Agustus 2004 oleh:**

Pembimbing Utama



**Prof. Dr. Gunawan Indrayanto
NIP. 130 541 814**

Pembimbing Serta



**Prof. Dr. H. Achmad Syahrani, M.S.
NIP. 130 809 077**

ABSTRACT

Biotransformation of Pyrocatechol by Cell Suspension Cultures of *Solanum mammosum* L.

Biotransformation using plant cell suspension cultures serve as a tool in the structural modification of compounds. This study reported that the cell suspension cultures of *Solanum mammosum* L. have the ability to convert pyrocatechol to its biotransformation product. The toxicity test showed that the maximum concentration of pyrocatechol added in suspensions cultures was 250 ppm. Biotransformation products were detected in cells only. The study showed that the light did not influence its biotransformation products. Biotransformation products of pyrocatechol were isolated by column chromatography and gave three its biotransformation products which have the same spectra like pyrocatechol.

Key words: *Solanum mammosum* L.; Cell suspensions cultures; Biotransformation, Pyrocatechol