

- COPPER IONIS
- SOIL TREATMENT
- SOLANUM.

SKRIPSI

DEWI SUSETIYANY ICHSAN

STUDI FITOREMEDIASI, PERTUMBUHAN DAN FITOSTEROID KULTUR PUCUK *Solanum laciniatum* Ait. PADA BERBAGAI KADAR Cu²⁺

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FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
BAGIAN ILMU BAHAN ALAM
SURABAYA

2005



Lembar Pengesahan

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FITOSTEROID KULTUR PUCUK *Solanum laciniatum* Ait.
PADA BERBAGAI KADAR Cu²⁺**

SKRIPSI

**Dibuat untuk memenuhi syarat mencapai gelar Sarjana Farmasi pada
Fakultas Farmasi Universitas Airlangga
2005**

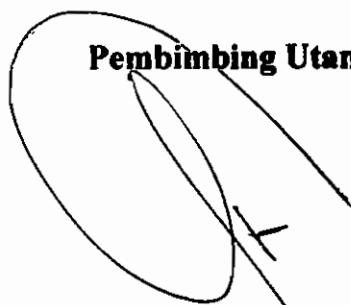
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ABSTRACT

Study Phytoremediation Of Cu²⁺, The Growth And Phytosteroid Content Of Shoot Cultures Of *Solanum Laciniatum* Ait.

Shoot cultures of *Solanum laciniatum* Ait. were able to grow in media containing Cu²⁺ 1-20 mg/L and could remove 13-33 % Cu²⁺ from the media. At Cu²⁺ 1-10 mg/L, the growth index increased up to 1,2 fold and caused the cell walls to thicken. Increasing Cu²⁺ up to 10 mg/L caused total sterol and solasodin content in the biomass increased up to 1,3 and 1,9 fold, respectively and highest at Cu²⁺ 10 mg/L. Cu²⁺ at 20 mg/L caused a decrease in growth index and phytosteroids (total sterol and solasodin) content of the cultures of 0,7 and 0,8 fold, respectively.

Key words : Copper ions, phytosteroids, remediation, sterol, solasodin, *Solanum laciniatum* Ait.