

SKRIPSI

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REMEDIASI Cu^{2+} , PERTUMBUHAN DAN
PEMBENTUKAN FITOSTEROID PADA KULTUR
PUCUK *Costus speciosus* Koen

FF 07/06

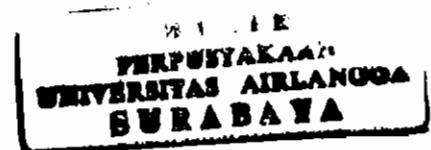
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FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
BAGIAN ILMU BAHAN ALAM
SURABAYA

2005



Lembar Pengesahan

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PEMBENTUKAN FITOSTEROID PADA KULTUR
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Dibuat untuk memenuhi syarat
mencapai gelar Sarjana Farmasi pada
Fakultas Farmasi Universitas Airlangga

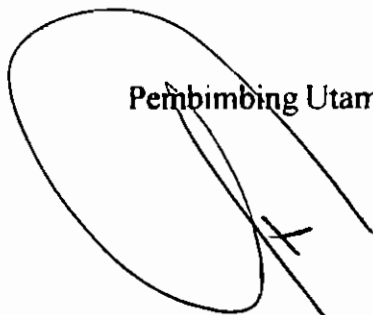
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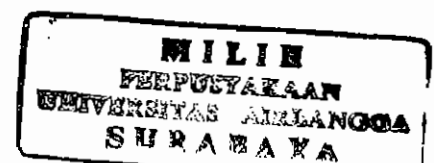


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ABSTRACT

Remediation Of Cu²⁺, The Growth And Phytosteroids Content Of Shoot Cultures Of *Costus speciosus* Koen

Shoot cultures of *Costus speciosus* were able to grow in media containing Cu²⁺ 1-20 ppm and could remediate Cu²⁺ from the media up to 38%. The shoot cultures tolerant with Cu²⁺ up to 20 ppm. Total sterol content of these shoot cultures increased up to 134%, in media containing Cu²⁺ 5 ppm and the diosgenin content increased up to 250% in media containing Cu²⁺ 10 ppm than its control (0,006 ppm).

Keyword : Copper, phytosteroids, phytoremediation, *Costus speciosus*, sterols, diosgenin