SKRIPSI

ADITYO SULASANTO

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

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Oleh:

ADITYO SULASANTO
NIM: 059912146

Skripsi ini telah disetujui
tanggal 27 Agustus 2004 oleh:

Pembimbing Utama	Pembimbing Serta
Prof. Dr. Gunawan Indrayanto	**Prof. Dr. H. Achmad Syahrani, M.S.**
NIP. 130 541 814	**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