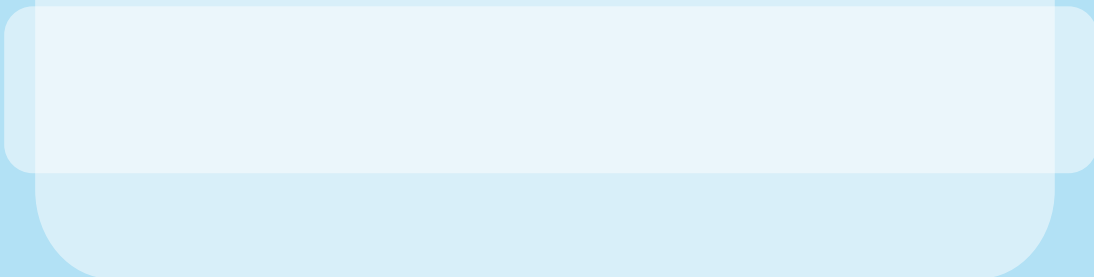


Jurnal Ilmiah
FARMASI

(Scientific Journal of Pharmacy)



JURNAL ILMIAH FARMASI
(SCIENTIFIC JOURNAL OF PHARMACY)

PIMPINAN UMUM/ PENANGGUNG JAWAB
Dekan Fakultas Matematika dan Ilmu Pengetahuan Alam
Universitas Islam Indonesia

WAKIL PIMPINAN UMUM/ WAKIL PENANGGUNG JAWAB
Ketua Jurusan Farmasi FMIPA UII

MITRA BESTARI

1. Prof. Dr. Wiryatun Lestariana, Apt
2. Prof. Dr. Zullies Ikawati, Apt
3. Prof. Dr. Sudibyo Martono, Apt
4. Dr. Tedjo Yuwono, Apt
5. Prof. Dr. Dachriyanus, Apt
6. Prof. dr. Iwan Dwiprahasto, MMedSc, PhD
7. Prof. Dr. Lukman Hakim M.Sc., Apt
8. Prof. Dr. Achmad Fudholi, DEA, Apt
9. Prof. Dr. Ibnu Gholib Gandjar, DEA., Apt

DEWAN EDITOR

Ketua : Saepudin, M.Si., Apt
Sekretaris : Rochmy Istikharah, M.Sc., Apt.
Anggota : Vitarani Dwi Ananda Ningrum, M.Si., Apt
Okti R. Mafruhah, MSc., Apt
Dimas Adhi Pradana, MSc., Apt.
Fithria DA. Suryanegara, MSc., Apt.
Ari Wibowo, S.Farm., Apt
Arba Pramudita Ramadani, MSc., Apt.
Oktavia Indrati, S.Farm., Apt.

Penerbit

Jurusan Farmasi Fakultas Matematika dan Ilmu Pengetahuan Alam
Universitas Islam Indonesia

Alamat Penerbit

Jurusan Farmasi FMIPA UII
Jl. Kaliurang Km. 14,4 Yogyakarta 55584
Telp. (0274) 896439 ext. 3047
Email: jif@uii.ac.id

EVALUASI POTENSI PELESTARIAN TUNAS HASIL KULTUR IN VITRO DARI TANAMAN OBAT CEPLUKAN (*Physalis angulata*,L.)

Saepudin

Program Studi Farmasi Universitas Islam Indonesia

ABSTRACT

A tissue culture and plant generation for the ceplukan, *Physalis angulata*, L has been developed. Callus were efficiently induced on Murashige and Skoog (MS) medium supplemented with 0,1 ppm indole-3-acetic acid (IAA) and variation of 1, 2, 3, 4, and 5 ppm benzyladenine (BA). The regenerable callus differentiated into shoots. Phytochemical containing of the shoots were detected and compared with the origin plant using Thin Layer Chromatography (TLC). Flavonoid was showed by bright blue spot under UV 366 nm and became yellow after smoked by NH₃ with HRf 43 and 69. Saponin was showed by yellow spot with HRf 18 and purple spot with HRf 45 after sprayed by anisaldehyde-sulfuric acid. HRf of the shoots from culture and origin plant were the same, showed that shoots contains the same phytochemical as the origin plant.

Keyword: shoots, tissue culture, restoration, flavonoid, saponin