

ABSTRAK

Penelitian tentang pertumbuhan *Curcuma zedoaria* pada media Murashige-Skoog dengan penambahan berbagai konsentrasi *6-Benzyl Aminopurine* (BAP) dan sukrosa secara *In Vitro* telah dilakukan dari bulan Juni 2013 – Februari 2014 di Laboratorium Fisiologi Tumbuhan dan Kultur Jaringan, Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas. Penelitian ini bertujuan untuk mengetahui kemampuan pertumbuhan *C. zedoaria* pada medium dengan beberapa konsentrasi BAP dan sukrosa. Metode penelitian yang digunakan adalah rancangan acak lengkap (RAL) dengan 8 perlakuan dan 3 ulangan yaitu penambahan sukrosa (3% dan 5%) dan BAP (0, 1.5, 3 dan 4.5 mg/L) pada medium MS. Hasil penelitian menunjukkan bahwa penambahan sukrosa dan BAP tidak berbeda nyata terhadap jumlah dan tinggi tunas.

Kata kunci : *In vitro*, *Curcuma zedoaria*, Sukrosa dan BAP

ABSTRACT

The study about growth of *Curcuma zedoaria* Roscoe on Murashige-Skoog media with addition of several concentrations of 6-Benzyl Aminopurine (BAP) and sucrose with *In Vitro* was conducted from June 2013 - February 2014 in the Laboratory of Plant Physiology and Tissue Culture, Department of Biology, mathematic and Natural Science Faculty, Andalas University. The aim of the study was to determine the ability of shoot formation of white turmeric (*Curcuma zedoaria* Roscoe) on the effect of BAP and sucrose concentration. The method used a Completely Randomized Design (CRD) with 8 treatments and 3 replications were the addition of sucrose (3% and 5%) and BAP (0, 1.5, 3 and 4.5 mg/L) in MS medium. The result showed that addition of sucrose and BAP were not significantly different to the number and height of shoots.

Key words: *In vitro*, *Curcuma zedoaria*, Sucrose and BAP