

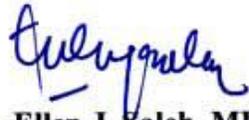
**PERSETUJUAN PEMBIMBING**

**PEMANFAATAN EKSTRAK DAUN ECENG GONDOK (*Eichornia crassipes*)  
DENGAN LAMA PERENDAMAN YANG BERBEDA  
TERHADAP DAYA AWET TELUR AYAM RAS**

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**SKRIPSI**

**Oleh :**

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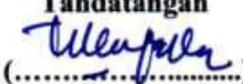
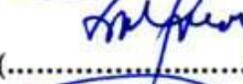
**NIM. 621 412 056**

**Telah disidangkan dan dipertahankan di depan dewan penguji**

**Hari/Tanggal : Jumat / 20 Juli 2018**

**Pukul : 08.00 WITA**

**Dewan penguji :**

<b>Nama</b>	<b>Jabatan</b>	<b>Tandatangan</b>
<b>1. <u>Ir. Ellen J. Saleh, MP</u> NIP. 19680109 199403 2 003</b>	<b>Penguji I</b>	 (.....)
<b>2. <u>Dr. Muhammad Sayuti, S.Pt, M.Si</u> NIP. 19671231 200604 1 001</b>	<b>Penguji II</b>	 (.....)
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## ABSTRAK

**Hidayat Blongkod. 2018. Pemanfaatan Ekstrak Daun Eceng Gondok (*Eichornia crassipes*) Sebagai Bahan Pengawet Telur Ayam Ras. Program Studi Peternakan, Fakultas Pertanian, Universitas Negeri Gorontalo. Dibimbing oleh Ellen J. Saleh dan Muhammad Sayuti.**

Tujuan penelitian ini adalah untuk mengetahui pemanfaatan daun eceng gondok (*Eichornia crassipes*) sebagai bahan pengawet telur ayam ras. Penelitian disusun berdasarkan rancangan acak lengkap (RAL) dengan lima perlakuan dan tiga ulangan. Perlakuan adalah lama perendaman telur ayam ras 0, 30, 60, 90 dan 120 menit dalam filtrat daun eceng gondok konsentrasi 30%. Data dianalisis ragam sesuai dengan RAL dan diuji lanjut menggunakan uji beda nyata terkecil (BNT). Parameter yang diukur adalah persentase penurunan bobot, pH, rongga udara, *haugh unit* dan *indeks yolk* telur ayam ras yang disimpan pada suhu ruang selama enam minggu. Hasil analisis ragam menunjukkan bahwa telur ayam ras yang diawetkan dengan menggunakan filtrat daun eceng gondok dengan lama perendaman berbeda dan disimpan pada suhu ruang selama enam minggu tidak berpengaruh nyata ( $P>0,05$ ) terhadap pH dan diameter rongga udara telur, tetapi berpengaruh nyata ( $P<0,05$ ) terhadap presentase penyusutan bobot, *haugh unit* dan *indeks yolk* telur. Kesimpulan adalah perendaman telur ayam ras selama 60 menit dalam filtrat daun eceng gondok konsentrasi 30%, merupakan yang terbaik untuk memperpanjang daya simpan telur selama enam minggu.

**Kata kunci:** *telur ayam ras, filtrat daun eceng gondok, lama perendaman*

## ABSTRACT

**Hidayat Blongkod. 2018. The Utilization of Water Hyacinth (*Eichornia crassipes*) Leaves Extract with Different Immersion Duration towards Shelf Life of Native Chicken Eggs. Study Program of Animal Science, Faculty of Agriculture, State University of Gorontalo. The principal supervisor is Ellen J. Saleh, and the co-supervisor is Muhammad Sayuti.**

The research aimed to investigate the utilization of water hyacinth (*Eichornia crassipes*) leave extracts as preservatives of native chicken eggs. It was conducted based on completely randomized design (CRD) with five treatments and three replications. The treatments were immersion duration of native chicken eggs for 0, 30, 60, 90, and 120 minutes in a filtrate of water hyacinth leaves with a concentration of 30%. Research data were analyzed based on CRD and tested further by using Least Significant Difference. The measured parameters were the percentage of weight, pH, air cavity, haugh unit and yolk index of native chicken eggs kept at room temperature for six weeks. The Result of analysis of variance showed that egg of native chicken preserved with filtrate of water hyacinth leaves with different immersion duration and kept in room temperature for six weeks did not have significant influence ( $P > 0.05$ ) on pH and diameter of egg air cavity, yet it had significant influence ( $P < 0.05$ ) on percentage of weight loss, haugh unit and yolk index of egg. In conclusion, the immersion of native chicken eggs in 60 minutes in a filtrate of water hyacinth leaves with 30% concentration was the best to extend the shelf life of egg for six weeks.

**Keywords:** *egg of native chicken, filtrate of water hyacinth leaves, immersion duration*