

LAMPIRAN

Lampiran 1. Determinasi Tanaman Gaharu

HERBARIUM JATINANGOR
LABORATORIUM TAKSONOMI TUMBUHAN
DEPARTEMEN BIOLOGI FMIPA UNPAD
Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor
Telp. 022-7796412, email: phanerogamae@yahoo.com

LEMBAR IDENTIFIKASI TUMBUHAN No.56/HB/12/2019

Herbarium Jatinangor, Laboratorium Taksonomi Tumbuhan, Departemen Biologi FMIPA UNPAD, dengan ini menerangkan bahwa :

Nama : Nadiyah
NPM : 11161042
Instansi : Universitas Bhakti Kencana
Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
Tanggal Koleksi : 12 Desember 2019
Lokasi : Majalaya

Hasil Identifikasi.

Nama Ilmiah : *Aquilaria malaccensis* Lam.
Sinonim : *Aquilaria secundaria* Rumph. ex DC.
Nama Lokal : Daun gaharu
Famili : Thymelaeaceae

Klasifikasi (Hirarki Taksonomi)

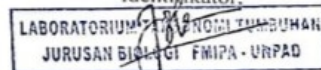
Kingdom : Plantae
Divisi : Magnoliophyta
Class : Magnolipsida
Ordo : Malvales
Famili : Thymelaeaceae
Genus : *Aquilaria*
Species : *Aquilaria malaccensis* Lam

Referensi:

Backer, C. A. and Bakhuizen v/d Brink R. C Jr. 1963. *Flora of Java*. Wolter-Noordhoff NV, Groningen.
Cronquist, Arthur. 1981. *An Integrated System of Classification of Flowering Plants*. Columbia University Press. New York
The Plant List. *Website Dunia Tumbuhan*. <http://www.theplantlist.org/tpl1.1/record/kew-713>
. Diakses tanggal, 17 Desember 2019.

Jatinangor, 17 Desember 2019

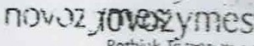
Identifikator,



Drs. Joko Kusmoro, M.P.
NIP. 19600801 199101 1 001

Lampiran 2. COA Enzim Alfa Amilase (Certificate of Analysis)

Certificate of Analysis



novozymes
Rethink Technology Tomorrow

Date
Jul 19, 2019

Purchase order item/date
NZ-15-2019c / Jun 20, 2019

Delivery
7864135

Sales order
5723370

Sold to
PT Bio-Teknika Sukses Abadi
Tax ID: 03.084.273.7-034.000
Ruko Taman Palom Lestari
Blok Y No. 11 Cengkareng Barat,
11730 JAKARTA
INDONESIA

Material: **Termamyl SC DS (enzyme)**

Batch: **AUS61019** Quantity: **4.820 KG**

Production date: **May 21, 2019** Best before: **Nov 19, 2020**

Characteristic	Unit	Value
Alpha-amylase unit KNU-S	/g	265.46
pH at 25°C		6.21
Density	g/ml	1.258
Total viable count	/g	< 100
Coliform bacteria	/g	< 49
E.coli		Not Detected, 25 g
Salmonella		Not Detected, 25 g

This is a computer generated document, and no signature is required.

Novozymes China
150 Nanhai Road TEDA
Tianjin, 300457, China
Tel: +86-22-25322062 Fax: +86-22- 312084
www.Novozymes.com.cn

诺维信中国
天津经济技术开发区南海路150号
邮编: 300457
电话: +86-22-25322062 传真: +86-22-25322064
www.Novozymes.com.cn

Lampiran 3. COA Amylum (Certificate of Analysis)



Certificate of Analysis

1.01252.0250 Starch soluble GR for analysis ISO
Batch F2052152

	Spec. Values	Batch Values
Appearance (color)	white	white
Appearance (description)	fine powder	fine powder
pH-value (2 %; water)	6.0 - 7.5	6.6
Sensitivity	passes test	passes test
Reducing matter (as maltose)	max 0.7 %	< 0.7 %
Sulfated ash	max 0.4 %	0.3 %
Loss on drying (105 °C, 2 h)	max 10 %	8 %
Suitability as enzyme substrate (for amylases)	passes test	passes test

Iso reagent

Minimum shelf life (DD.MM.YYYY) 31.12.2023

Dr. Timm Schlegelmilch
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.

Merck KGaA, Frankfurter Straße 250, 64293 Darmstadt (Germany): +49 6151 72-0
EMD Millipore Corporation - a subsidiary of Merck KGaA, Darmstadt, Germany
400 Summit Drive, Burlington, MA 01803, USA, Phone +1 (781) 533-6000
SALSA Version 786305 /990000605620// Date: 17.12.2018

Page 1 of 1

Lampiran 4. Dokumentasi Foto

Hasil == Fitokimia



Proses Soxletasi



Proses Pemekatan Ektrak Menggunakan Evaporator



Proses ECC (Ekstraksi Cair cair)



Penimbangan bahan



Penimbangan cawan kosong



Penimbangan Bobot sampel

Sampel Pelarut Fraksi



Sampel Starch Soluble Gr



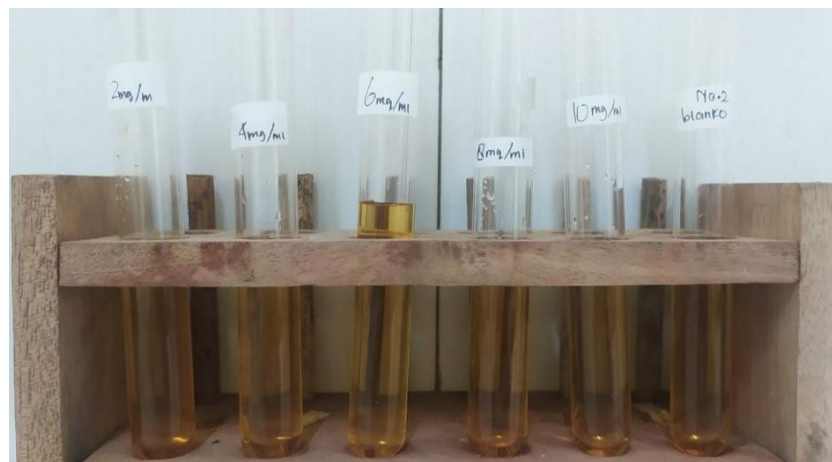
Sampel Enzim Alfa amilase



Penimbangan Amylum



Sampel Pembuatan Kurva Standar



Sampel Pengujian inhibisi amylum dengan enzim Alfa amilase



Sampel blanko dan kontrol Positif



Pengukuran panjang gelombang sampel