

LAMPIRAN

Lampiran 1 Hasil Determinasi

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

LEMBAR IDENTIFIKASI TUMBUHAN

No.25/HB/07/2022

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

Nama : Anisa Puspita Dewi
 NPM/NIK : 11181058
 Instansi : Universitas Bhakti Kencana
 Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
 Tanggal Koleksi : 07 Juli 2022.
 Lokasi : Bandung.

Hasil Identifikasi,

Nama Ilmiah : *Carica papaya* L.
 Sinonim : *Carica citriformis* J.Jacq. ex Spreng.
 Nama Lokal : Pepaya
 Suku/Famili : Caricaceae

Klasifikasi (Hirarki Taksonomi)

Kingdom : Plantae
 Divisi : Magnoliophyta
 Class : Magnoliopsida
 Ordo : Brassicales
 Famili : Caricaceae
 Genus : *Carica*
 Species : *Carica papaya* L.

Referensi:

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-158489>.
 Backer, C. A. and Bakhuizen v/d Brink R. C Jr. 1963. *Flora of Java*.
 Wolter-Noordhoff NV. Groningen.

Jatinangor, 08 Juli 2022.

Identifikator,

LABORATORIUM TAKSONOMI TUMBUHAN
 JURUSAN BIOLOGI FMIPA-UNPAD

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

Lampiran 2 COA Polivinil Alkohol (PVA)



Certificate of Analysis

1.14266.0100 Polyvinyl alcohol protective colloid for argentometric titration
Batch S7989266

Batch Values		
Chloride (Cl)	≤ 0.001	%
pH-value (0.2 %; water)	5.8	
Appearance of solution	passes test	
Identity (IR)	passes test	

Date of examination (DD.MM.YYYY) 07.07.2020
Minimum shelf life (DD.MM.YYYY) 31.07.2025

Dr. Jörg Bauer
Responsible laboratory manager quality control

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

Lampiran 3 COA Carbopol

COREL PHARMA CHEM

THICK, RICH, KACH / S&P / 15 EAST, BENDU LINA, SINGAPORE 1102101
PHONE : + 65 8000 9821 / 8000 9822 / 8000 9823 / 8000 9824 / 8000 9825 / 8000 9826 / 8000 9827 / 8000 9828 / 8000 9829 / 8000 9830

CERTIFICATE OF ANALYSIS

NAME OF PRODUCT: **ACRYPOL 940**
(Carbomer 940)

BATCH NO: **11021011** DATE: **25/08/2021**

MFG. DATE: **AUG-2021** A.I. NO: **CRL/TP/41/21-22**

RETEST DATE: **JUL-2024**

The supply as detailed above has been tested and found to meet the requirements as below on sample basis.

TEST	SPECIFICATION*	RESULTS
DESCRIPTION	White, fluffy, hygroscopic powder having a slight, characteristic odor. The pH of 1 in 100 dispersion in water is about 5.	White fluffy, hygroscopic powder having a slight, characteristic odor. The pH of 1 in 100 dispersion in water is about 5.
SOLUBILITY	When triturated with alkali hydroxide or amine it dissolves in water, alcohol and glycerol.	Compatible
IDENTIFICATION	Very viscous gel is produced	Very viscous gel is produced.
	10 mg/ml dispersion with Thionin Blue - Orange Color	Orange color produced
	10 mg/ml dispersion with stannous fluid - Yellow Color	Yellow color produced
VISCOSITY (mPa.s) (5 % aqueous dispersion)	40,000 to 60,000	40,000 mPa.s
LOSS ON DRYING (%)	NMT 2.0	0.74%
LIMIT OF BENZENE (%)	NMT 0.5	Not detected
ASSAY FOR CARBOXYLIC ACID CONTENT (%)	56.0 to 68.0	57.55%

* Specification as per finished product specification (QC/W/235/06). Meeting requirement of USP/NF

TESTED BY
ALPESH PATEL
(Q.C. Chemist)

AUTHORIZED BY
PRAGNESH K. JIAPATI
(In-charge QC)

CHEMIST
PRACO PHARMA MAL
INDONESIA
KATUHUSE

COREL PHARMA CHEM
SINGAPORE

The Next Generation Polymer Technologist

ACRYCOAT - COLOMCOAT - ACRYPOL - KRYON - ACRYNOL - ACRYFLOW - ACRYSET

Lampiran 4 COA Polivinil Prolidon (PVP)**Product Information****MB102 Polyvinylpyrrolidone (PVP) K-30, For Molecular Biology**

Product Number	Packing
MB102	: 100G
MB102	: 500G

Product Information

Product Code	: MB102
Product Name	: Polyvinylpyrrolidone (PVP) K-30, For Molecular Biology
Synonym	: Plasdone; Polyvidone; Povidone
Molecular Formula	: $(C_6H_9NO)_n$
Average Molecular Weight	: 40,000
CAS No.	: 9003-39-8
HS Code	: 3905 99 90
Other Information	: A water soluble polymer made from the monomer of N-Vinylpyrrolidone
Shelf Life	: 4 years

Technical Specification

Appearance	: White to yellowish-white hygroscopic powder or flakes
Solubility	: 100 mg soluble in 1 mL of water
pH (5% in water at 25°C)	: 3.00 - 5.00
DNases	: None detected
RNases	: None detected
FTIR (KBr disc)	: Matches with the standard pattern
Sulphated ash	: $\leq 0.10\%$
Water (K.F.)	: $\leq 5.0\%$
Nitrogen content (anhydrous substance)	: 11.50 - 12.80%

Risk and Safety Information

WGK	: 1
RTECS	: TR8370000
Storage Temperature(°C)	: Store below 30°C

Transport Information

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods
IMDG	: Not Dangerous Goods
IATA	: Not Dangerous Goods

A-516, Swastik Disha Business Park, Via Vadhani Indl. Est., LBS Marg, Mumbai-400 086, India. Phone: +91-022-6147 1919
 Fax: +91-022-6147 1920 Gram : STERILITY . email : info@himedialabs.com. Visit us at our website: www.himedialabs.com

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Lampiran 5 Pengambilan Sampel



Pengumpulan getah



sampel getah

Lampiran 6 Isolasi enzim Protease



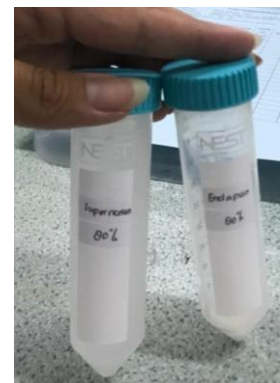
Ammonium 20%



Ammonium 40%



Ammonium 60%



Ammonium 80%



Alat sentrifugasi

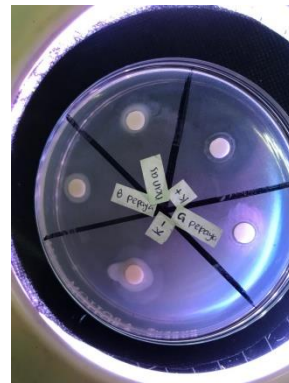


Dialysis

Lampiran 7 Hasil Uji Aktivitas Antibakteri Enzim Protease



Mikrodilusi



Cakram

Perhitungan antibiotic

30.000 ppm
300 mg/ 10 ml

$$\begin{aligned} 1000 \text{ ppm} \\ V1.N1 &= V2.N2 \\ 10.000 . ? &= 10 . 1000 \\ &= \frac{10.000}{10.000} \\ &= 1 \text{ ml} \end{aligned}$$

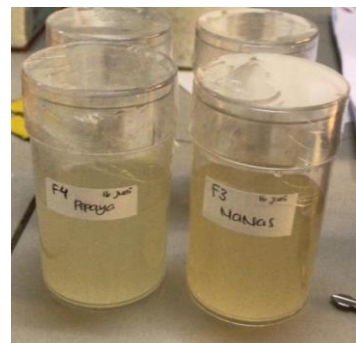
$$\begin{aligned} 10.000 \text{ ppm} \\ V1.N1 &= V2.N2 \\ 30.000 . ? &= 10 . 10.000 \\ &= \frac{100.000}{30.000} \\ &= 3,3 \text{ ml} \end{aligned}$$

$$\begin{aligned} 500 \text{ ppm} \\ V1.N1 &= V2.N2 \\ 1.000 . ? &= 10 . 500 \\ &= \frac{5000}{1000} \\ &= 5 \text{ ml} \end{aligned}$$

Lampiran 8 Hasil Pembuatan Masker Gel peel off

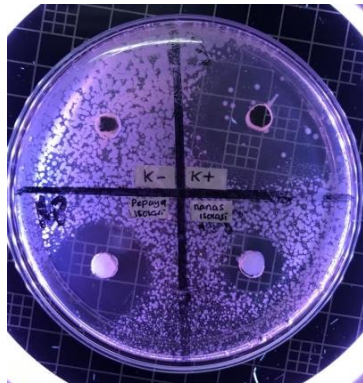


F1 & F2

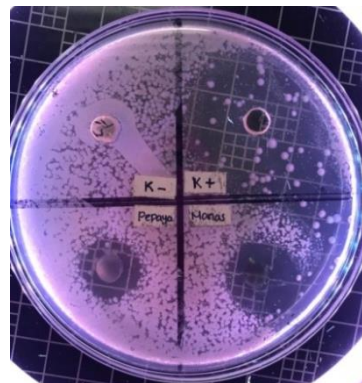


F3 & F4

Lampiran 9 Hasil Uji Aktivitas Antijerawat Masker



Antijerawat F1 & F2



Antijerawat F3 & F4

Lampiran 10 Hasil Uji Evaluasi pH

Formulasi 1



1



2



3

Formulasi 2



1



2



3

Formulasi 3



1



2

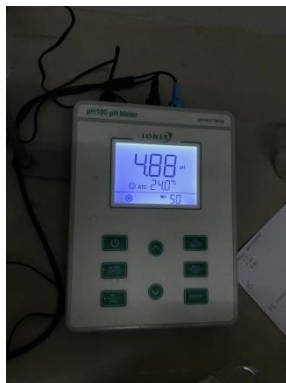


3

Formulasi 4



1



2



3

Lampiran 11 Hasil Uji Viskositas

Formulasi 1



1

2

3

Formulasi 2



1

2

3

Formulasi 3



1

2

3

Fomulasi 4

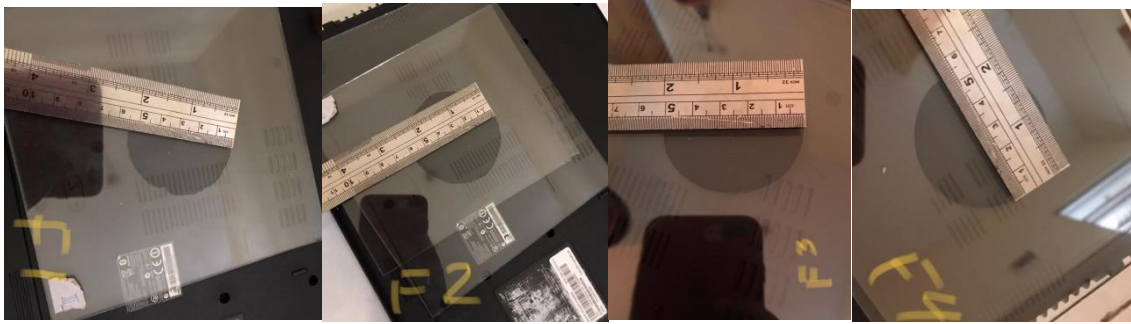


1

2

3

Lampiran 12 Hasil Uji Daya Sebar



Lampiran 13 Hasil Uji Waktu Mengering

Formula 1



Formula 2



Formula 3



Formulasi 4



Lampiran 14: Format Surat Pernyataan Bebas Plagiarisme

11181058 anisa puspita Dewi

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SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Anisa Puspita Dewi

N P M : 11181058

adalah mahasiswa Fakultas Farmasi, Universitas Bhakti Kencana, menyatakan dengan sesungguhnya bahwa Naskah Tugas Akhir/Skripsi yang saya tulis dengan judul:

Uji Aktivitas Enzim Protease dari Getah Pepaya Muda (*Carica papaya L.*) sebagai Antijerawat dan Aplikasinya pada Masker Gel peel-off

adalah benar-benar merupakan hasil karya saya sendiri. Apabila di kemudian hari diketahui bahwa isi Naskah Skripsi ini merupakan hasil plagiasi, maka saya bersedia menerima sanksi berupa pembatalan kelulusan dan atau pencabutan gelar yang saya peroleh.

Demikian surat pernyataan ini saya buat untuk dapat dipergunakan sebagaimana mestinya.

Bandung , 5 Agustus 2022

Yang membuat pernyataan,



Anisa Puspita Dewi

11181058

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,

Nama : Anisa Puspita Dewi

N P M : 11181058

Menyatakan bahwa demi kepentingan perkembangan ilmu pengetahuan, saya menyetujui abstrak Skripsi yang saya tulis dengan judul:

Uji Aktivitas Enzim Protease dari Getah Pepaya Muda (*Carica papaya L.*) sebagai Antijerawat dan Aplikasinya pada Masker Gel peel-off

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Bandung , 5 Agustus 2022

Yang membuat pernyataan,

A yellow rectangular official stamp with a black border. It features the Garuda Pancasila emblem on the left and the text 'PETERAI TEMPEL' in the center. Below the emblem, the alphanumeric code 'B2A7AJX39637007' is printed. A handwritten signature in black ink is written across the stamp.

Anisa Puspita Dewi

11181058