

LAMPIRAN

Lampiran 1 Determinasi Tanaman

HERBARIUM JATINANGOR
LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA UNPAD
Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor
Telp. 089689992695, email: phanerogamae@yahoo.com

LEMBAR IDENTIFIKASI TUMBUHAN
No.17/HB/12/2023.

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

Nama : Syifa Najma Wuljanah
NIM/NIP : 221FF04025
Instansi : Universitas Bhakti Kencana.
Lokasi : Bandung.

Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
Tanggal Koleksi : 08 Januari 2024.

Hasil Identifikasi

Nama Ilmiah : *Alpinia purpurata* (Vieill.) K.Schum.
Sinonim : *Alpinia purpurata* var. *albobracteata* K.Schum.
Nama Lokal : Rimpang Lengkuas Merah
Suku/Famili : Zingiberaceae

Klasifikasi (Hirarki Taksonomi)

Kingdom : Plantae
Divisi : Magnoliophyta
Class : Liliopsida
Ordo : Zingiberales
Famili : Zingiberaceae
Genus : Alpinia
Species : *Alpinia purpurata* (Vieill.) K.Schum.

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 DuniaTumbuhan. <http://www.theplantlist.org/tp11.1/record/kew-158489>.

Jatinangor, 09 Januari 2024.

Identifikator,

LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA-UNPAD

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

Gambar 8. Determinasi Tanaman

Lampiran 2 Proses Pembuatan Ekstrak Etanol Rimpang Lengkuas Merah

Simplisia : 	Pengeringan simplisia 	Grinder 
Maserasi 	Rotary Evaporator 	Waterbath 
	 Ekstrak kental	

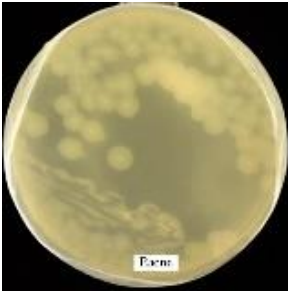
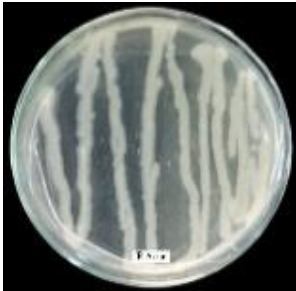
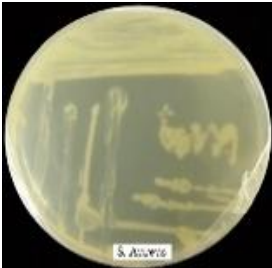
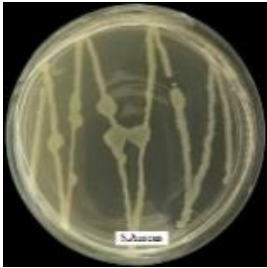
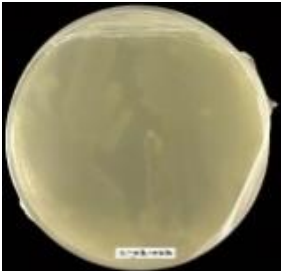
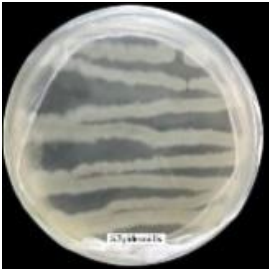
Lampiran 3 Hasil Karakterisasi Simplisia

Pengujian	Hasil	Perhitungan
Susut pengeringan		Simplisia = 3,844
Kadar sari larut air		➤ Bobot simplisia = 5 g ➤ Bobot cawan kosong = 101,10g ➤ Bobot cawan + ekstrak = 101,33g $= \frac{\text{cawan isi} - \text{cawan kosong}}{\text{bobot simplisia (g)}} \times \frac{\text{vol pelarut}}{\text{vol filtrat}} \times 100\%$ $= \frac{101,33\text{g} - 101,10\text{g}}{5\text{g}} \times \frac{100\text{mL}}{20\text{mL}} \times 100\%$ $= \frac{0,23\text{g}}{5\text{g}} \times \frac{100\text{mL}}{20\text{mL}} \times 100\%$ $= \frac{23\text{g}}{100\text{g}} \times 100\%$ $= 23\%$
Kadar sari larut etanol		➤ Bobot simplisia = 5 g ➤ Bobot cawan kosong = 82,80g ➤ Bobot cawan + ekstrak = 82,98g $= \frac{\text{cawan isi} - \text{cawan kosong}}{\text{bobot simplisia (g)}} \times \frac{\text{vol pelarut}}{\text{vol filtrat}} \times 100\%$ $= \frac{82,98 - 82,80}{5\text{g}} \times \frac{100\text{mL}}{20\text{mL}} \times 100\%$ $= \frac{0,18\text{g}}{5\text{g}} \times \frac{100\text{mL}}{20\text{mL}} \times 100\%$ $= \frac{18\text{g}}{100\text{g}} \times 100\%$ $= 18\%$

Lampiran 4. Skrining Fitokimia

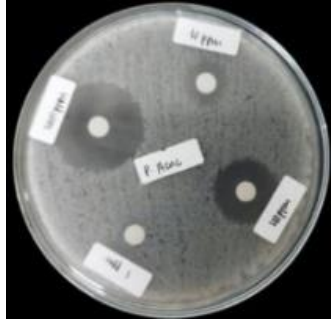
Pengujian	Hasil Identifikasi	Keterangan
1. Alkaloid Pereaksi Mayer Pereaksi Bouchardat Pereaksi Dragendorff		(+) Positif Adanya endapan putih (+) Positif Adanya endapan coklat (+) Positif Adanya endapan jingga
2. Flavanoid		(+) Positif Adanya perubahan warna menjadi jingga/merah tua
3. Saponin		(+) Positif Busa permanen
4. Tanin		(+) Positif Adanya perubahan warna hijau kehitaman
5. Steroid/Terpenoid		(+) Positif Terbentuk cincin merah

Lampiran 5. Persiapan Uji Aktivitas

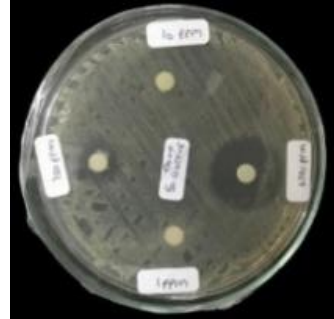
 Pengenceran antibiotik		
 Kultur murni P.acne	 Peremajaan P.acne	 Inokulasi P.acne
 Kultur murni S. Aureus	 Peremajaan S.aureus	 Inokulasi S. Aureus
 Kultur murni S. Epidermidis	 Peremajaan S.Epidermidis	 Inokulasi S.Epidermidis

Lampiran 6 Optimasi Antibiotik Dan Optimasi DMSO

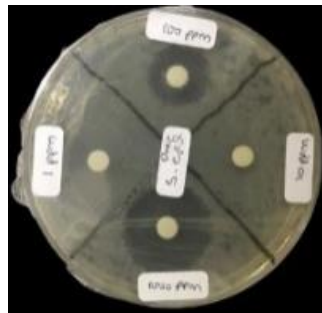
Optimasi Antibiotik Doksisiklin



Propionibacterium acne

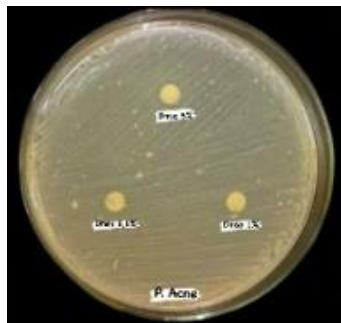


Staphylococcus aureus

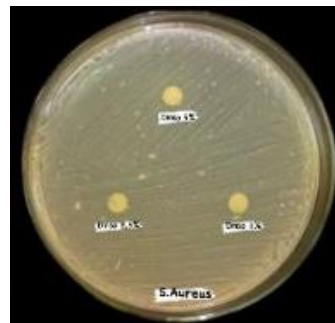


Staphylococcus epidermidis

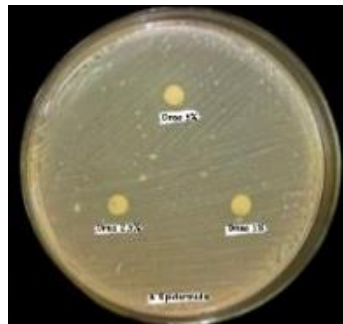
Optimasi DMSO



Propionibacterium acne

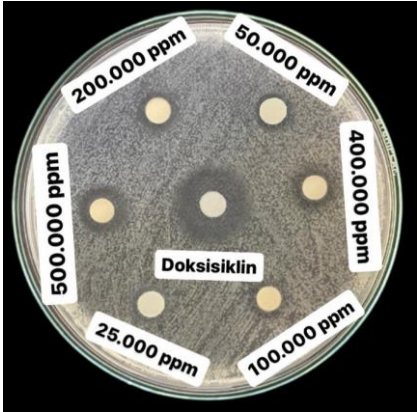
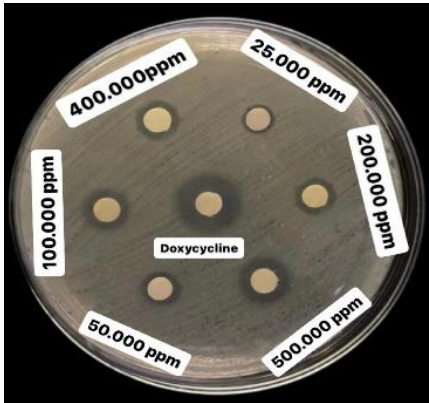
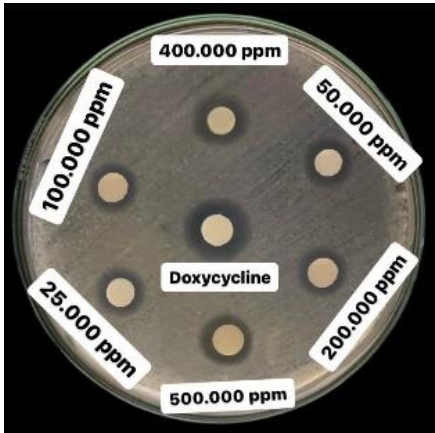


Staphylococcus aureus



Staphylococcus Epidermidis

Lampiran 7. Hasil Uji Aktivitas Antibakteri Metode (Kertas Cakram)

Bakteri	Hasil
<i>Propionibacterium acne</i>	
<i>Staphylococcus aureus</i>	
<i>Staphylococcus epidermidis</i>	

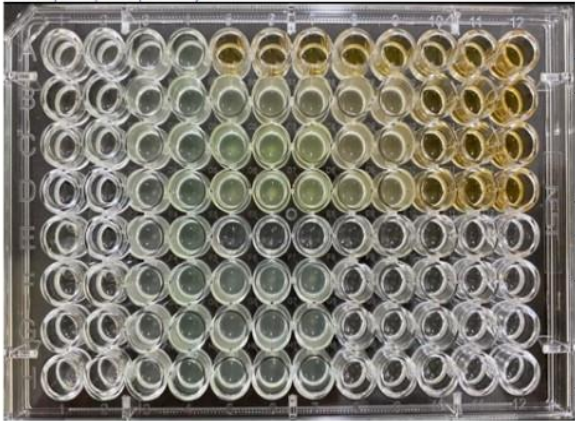
Lampiran 8. Hasil Metode Mikrodilusi Bakteri *Propionibacterium acne*

Bakteri	Pengujian																																																																																																																				
Propionibacterium acne	MHB+DMSO 2,5 % (-) MHB (+) MHB+ bakteri MHB+DMSO 2,5 % +Bakteri uji																																																																																																																				
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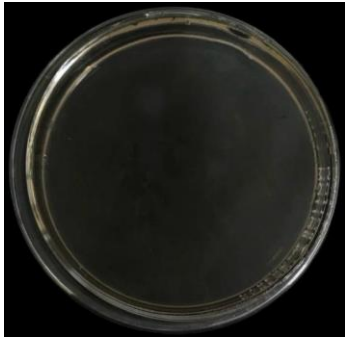
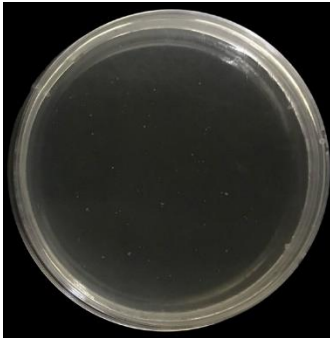
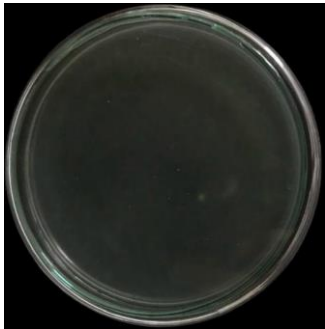
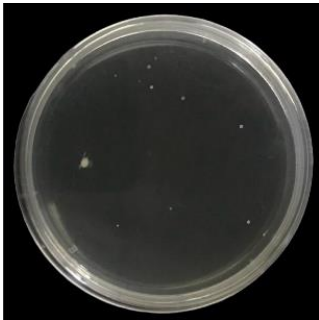
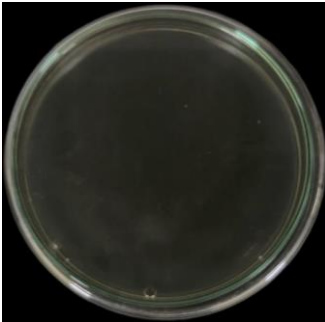
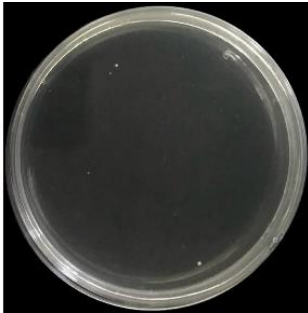
Lampiran 9. Hasil Metode Mikrodilusi Bakteri *Staphylococcus aureus*

Bakteri	Pengujian																																																																																																																				
Staphylococcus aureus	MHB+DMSO 2,5 % MHB+DMSO 2,5 % +Bakteri uji (-) MHB (+)MHB+ bakteri Kontrol Ekstrak MHB+ Ekstrak +Bakteri Uji Kontrol antibiotik MHB +Antibiotik+ Bakteri Uji																																																																																																																				
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Lampiran 10. Hasil Metode Mikrodilusi Bakteri *Staphylococcus epidermidis*

Bakteri	Pengujian																																																																																																																					
Staphylococcus epidermidis	MHB+DMSO 2,5 % MHB+DMSO 2,5 % +Bakteri uji (-) MHB (+)MHB+ bakteri  Kontrol Ekstrak MHB+ Ekstrak +Bakteri Uji Kontrol antibiotic MHB +Antibiotik+ Bakteri Uji																																																																																																																					
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	Interprestasi Keterangan : - =jernih + = keruh/ada endapan ++ = keruh dan ada endapan																																																																																																																					

Lampiran 11. Hasil konsentrasi Bunuh Minimum (KBM)

Bakteri <i>propionibacterium acne</i>	
Pengujian KBM Antibiotik Doksisisiklin	Pengujian KBM
	
Bakteri <i>Staphylococcus aureus</i>	
Pengujian KBM Antibiotik Doksisisiklin	Pengujian KBM
	
Bakteri <i>Staphylococcus epidermidis</i>	
Pengujian KBM Antibiotik Doksisisiklin	Pengujian KBM
	

Lampiran 11 lanjutan..

Perhitungan KHM dan KBM :

Jumlah koloni bakteri awal dalam 1 welll = 5×10^4 CFU /0,1 mL

Ekstrak etnol rimpang lengkuas merah

- a. 28 koloni bakteri *Propionibactrium acne*

$$\begin{aligned}\% \text{ inhibisi} &= \frac{\text{jumlah koloni bakteri awal}-\text{jumlah koloni bakteri akhir}}{\text{jumlah koloni awal}} \times 100 \% \\ &= \frac{50.000-28}{50.000} \times 100 \% \\ &= \frac{49.972}{50.000} \times 100 \% \\ &= 99.94\%\end{aligned}$$

- b. 13 koloni bakteri *Staphylococcus aureus*

$$\begin{aligned}\% \text{ inhibisi} &= \frac{\text{jumlah koloni bakteri awal}-\text{jumlah koloni bakteri akhir}}{\text{jumlah koloni awal}} \times 100 \% \\ &= \frac{50.000-13}{50.000} \times 100 \% \\ &= \frac{49.987}{50.000} \times 100 \% \\ &= 99.974\%\end{aligned}$$

- c. 5 koloni bakteri *Staphylococcus epidermidis*

$$\begin{aligned}\% \text{ inhibisi} &= \frac{\text{jumlah koloni bakteri awal}-\text{jumlah koloni bakteri akhir}}{\text{jumlah koloni awal}} \times 100 \% \\ &= \frac{50.000-5}{50.000} \times 100 \% \\ &= \frac{49.995}{50.000} \times 100 \% \\ &= 99.99\%\end{aligned}$$

Lampiran 12. Optimasi KLT

Toluen : Etil Asetat : Asam Format (2:5:1)			
Sinar UV 254	Sinar UV 366	Penampak Bercak Sitroborat	Penampak Bercak H ₂ SO ₄
			

PERHITUNGAN NILAI R_F

Diketahui :

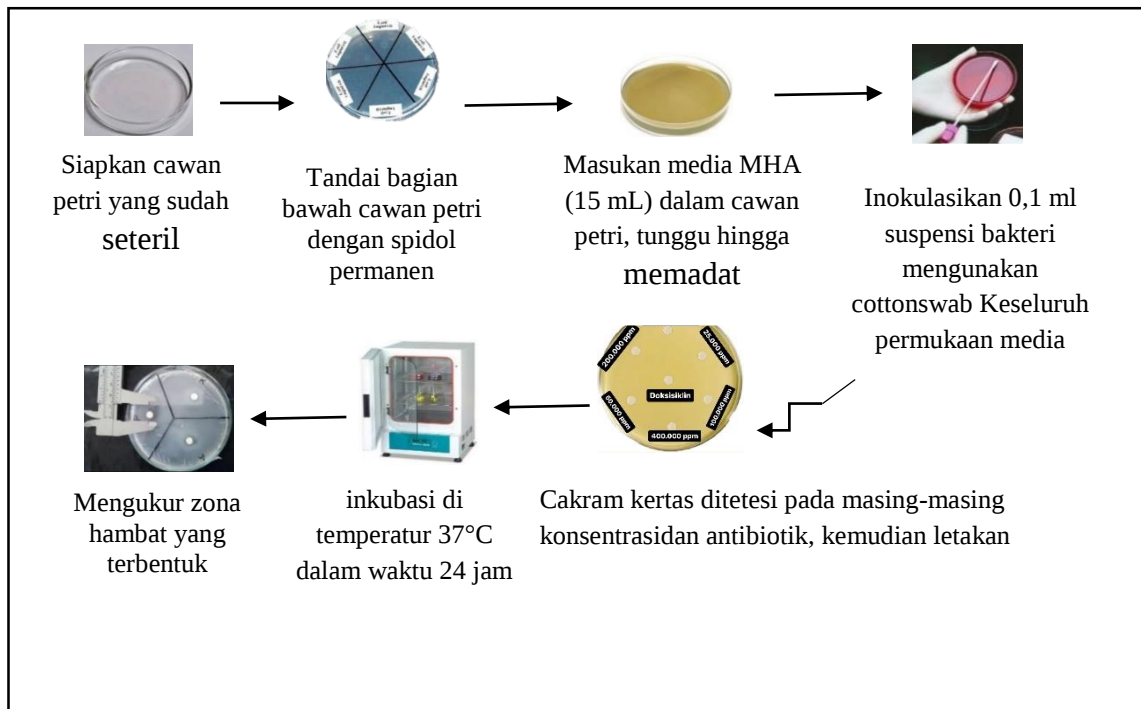
- Panjang plat KLT = 6 cm
- Lebar plat KLT = 1 cm
- Batas bawah = 1 cm
- Batas atas = 0,5 cm
- Eluen = toluen : etil asetat : asam format (2:5:1)
 - R_f 1 = Jarak yang di tempuh analit 3,2
Jarak yang ditempuh eluen 4,5
 - R_f 2 = Jarak yang di tempuh analit 3,6
Jarak yang ditempuh eluen 4,5

Rumus : $\frac{\text{jarak yang ditempuh analit}}{\text{jarak yang ditempuh eluen}}$

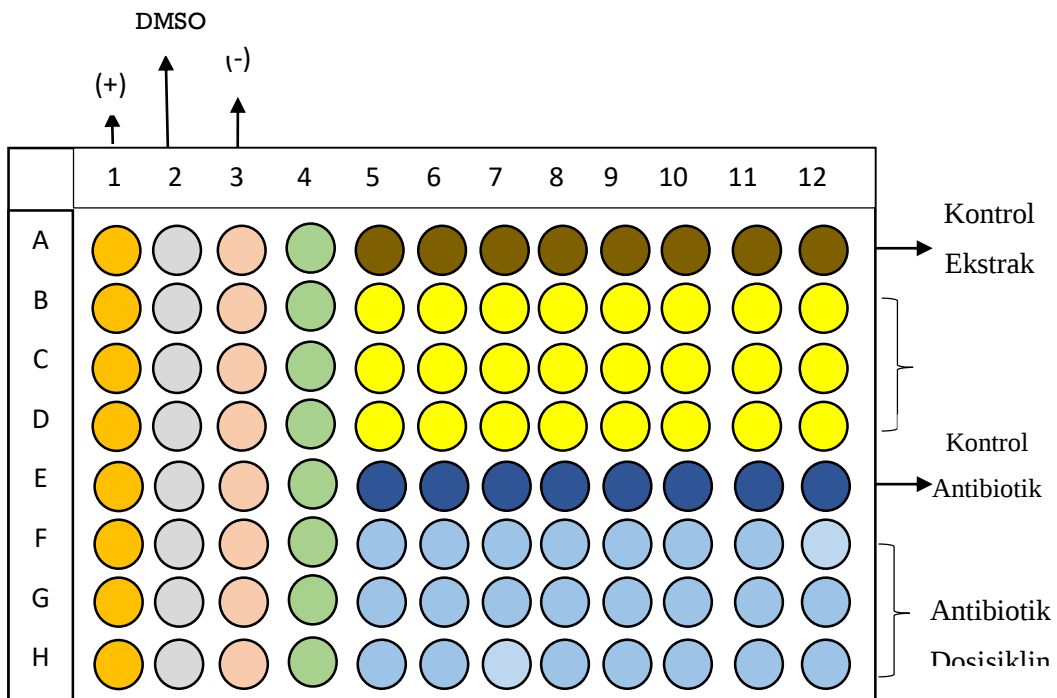
$$R_f 1 = \frac{3,2}{4,5} = 0,71$$

$$R_f 2 = : \frac{3,6}{4,5} = 0,8$$

Lampiran 13 Ilustrasi Prosedur Metode (Kertas Cakram)



Lampiran 14. Ilustrasi Alur Prosedur Metode Mikrodilusi



Keterangan :

- Kontrol Negatif : (Media MHB)
- Kontrol Pelarut : (Media MHB + DMSO + Bakteri)
- Kontrol Positif : (Media MHB + Bakteri)
- Kontrol : (Media MHB + DMSO 2,5% + Bakteri)
- Kontrol Ekstrak : (Media MHB + Ekstrak)
- Kontrol Uji : (Media MHB + Eksrak + Bakteri
- Kontrol Antibiotik : (Media MHB + Antibiotik)
- Kontrol : (Media MHB + Antibiotik + Bakteri)

Lampiran 15 *Certificate Of Analysis Propionibacterium acne*



Thermo Fisher Scientific
Microbiology
12076 Santa Fe Trail Drive
12230 Santa Fe Trail Drive
Lenexa, KS 66215
800.255.6730
800.447.5761 fax
www.thermofisher.com

Certificate of Analysis

Product Name: P. acnes ATCC 6919 PK/5
Lot Number: 743777

Product Number: R4607101
Expiration Date: 2025-04-17
(YYYY-MM-DD)

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820. Representative samples were tested per Remel Inc., a part of Thermo Fisher Scientific Quality Control specifications and were found to meet performance criteria for this product.

Purity:

Standardized aliquots of the rehydrated product are inoculated onto nonselective media and examined for pure growth following the appropriate incubation. Selective and Differential media are also tested where applicable.

Viability And Quantification:

Each organism is recovered from the preserved state within the required time frame and at an acceptable level. Passage number is stated as the current preserved state.

Macroscopic And Microscopic Morphology:

Colony morphology is consistent with documented referenced description.
Traditional staining is performed.

Characterization:

Organism exhibits characteristic biochemical, enzymatic, genotypical and/or biochemical reactions. Automated and/or conventional testing was performed and results were within established limits. Antimicrobial testing performed where applicable. Results within expected ranges.

CFU/loop: >10(4)

Passage: 3

Gram Reaction: Gram Positive Rod

Identification Profile: MicroSEQ® or Vitek® 2

Appearance: Preserved Gel Matrix suspended in inoculating loop

pH: N/A

Lampiran 16. *Certificate Of Analysis Staphylococcus aureus*



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Certificate of Analysis - Certified Reference Material

Thermo Scientific™ Trademark™

Product Number R4607016

Product Name S. aureus ssp aureus ATCC 6538 PK/5

Lot Number 747735

Usage Decision Accepted (OK)

Expiration Date 2025-04-29

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820. The results were derived from a representative sample of the batch and were obtained at the time of release. Refer to the enclosed product insert for instructions, intended use, hazard/safety requirements, and storage conditions.

Product Char

Results

Purity

Demonstrates pure growth on applicable media

Viability

Recovered at acceptable level within test period

Passage

3 (Current preserved state)

Microbiological testing	Results	Specification
>85% Identification on Vitek 2C GP	100	85 - 100
>95% Identification on MicroSEQ	Pass	95 - 100
Microscopic Features		

These tests are performed in accordance with ISO 17025 guidelines.

Thermo Fisher Scientific has determined each loop of this reference material to be sufficiently homogeneous for its intended use.

Individual products are traceable to a recognized culture collection.

Although the Vitek(TM) panel uses many conventional tests, the unique environment of the card, combined with the short incubation period, may produce results that differ from published results obtained by other methods

Lampiran 17. Certificate Of Analysis *Staphylococcus epidermidis*



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Certificate of Analysis - Certified Reference Material

Thermo Scientific™ Trademark™
Product Number R4606500
Product Name S. epidermidis ATCC 12228 PK/5
Lot Number 713245
Usage Decision Accepted (OK)
Expiration Date 2025-02-04

thermo scientific

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820.
The results were derived from a representative sample of the batch and were obtained at the time of release.
Refer to the enclosed product insert for instructions, intended use, hazard/safety requirements, and storage conditions.

Product Char Results

Purity	Demonstrates pure growth on applicable media
Viability	Recovered at acceptable level within test period
Passage	3 (Current preserved state)

Microbiological testing	Results	Specification
>85% Identification on Vitek 2C GP		85 - 100
>95% Identification on MicroSEQ	100	95 - 100
Microscopic Features	Pass	

These tests are performed in accordance with ISO 17025 guidelines.
Thermo Fisher Scientific has determined each loop of this reference material to be sufficiently homogeneous for its intended use.
Individual products are traceable to a recognized culture collection.
Although the Vitek(TM) panel uses many conventional tests, the unique environment of the card, combined with the short incubation period, may produce results that differ from published results obtained by other methods

Lampiran 18. Hasil Turnitin

ORIGINALITY REPORT			
7 %	7 %	3 %	%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS
PRIMARY SOURCES			
1	repositori.uin-alauddin.ac.id Internet Source	1 %	
2	repo.stikesicme-jbg.ac.id Internet Source	1 %	
3	repository.ub.ac.id Internet Source	1 %	
4	etd.umy.ac.id Internet Source	1 %	
5	jurnal.unpad.ac.id Internet Source	1 %	
6	journal.uta45jakarta.ac.id Internet Source	1 %	
7	repository.stikes-kartrasa.ac.id Internet Source	1 %	
8	riset.unisma.ac.id Internet Source	1 %	
9	digilib.unila.ac.id Internet Source	1 %	
Exclude quotes On			
Exclude matches < 1%			
Exclude bibliography On			

Lampiran 19 Kartu Bimbingan (Pembimbing Utama)



Fakultas Farmasi
Universitas
Bhakti Kencana

Dok. No. 02.04.001/PM-03/AMD-SPM

Revisi: 01/2024

Halaman: 1 dari 1

KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Utama	: AP1. Ika Kurnia Susmanawati M. Si				
Nama Mahasiswa	: Syah Najwa Wuljanah				
NPM	: 221504025				
Bidang Ilmu	:				

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Selasa 29/03/2024	15.00	Prodi si	Diskusi pemberian bahan	?
2	Selasa 05/03/24	13.00	Prodi si	Diskusi pemberian alat	?
3	Rabu 24/04/2024	10.00	Prodi si	Diskusi alur prosedur kerja	?
4	Senin 29/04/2024	10.00	lab mikroba	Diskusi perhitungan Ekstrak dan antibiotik	?
5	Jumat 26/04/24	08.30	lab mikro	Diskusi mengenai inokulum	?
6	Senin 29/04/24	08.00	lab mikro	Diskusi prosedur ekstraksi	?
7	Selasa 20/04/24	12.30	Rm mentoring	Presentasi laporan kemajuan ke-1 TA2	?
8	Rabu 08/05/24	08.55	Via whatsapp	Diskusi mengenai optimasi antibiotik	?
9	Sabtu 25/05/24	16.00	Via zoom	Presentasi laporan kemajuan ke-2 TA2	?
10	Selasa 28/05/2024	12.45	Ruang Rapat	TD laporan kemajuan dan diskusi Hasil	?
11	Selasa 11/06/2024	14.10	Ruang Diskusi	Diskusi AWR Mikrobiologi	?
	Rabu 12 Juni 2024	20.00	Zoom	Menyimpulkan prosedur	?
	Jumat 14 Juni	13.00	lab mikro	Diskusi Optimasi	?
	Senin 20 Juni 2024	10.00	lab mikro	Diskusi optimasi BKT	?
	Selasa 21 Juni	09.30	lab mikro	Diskusi Hasil ATW	?
	Kamis 11 Juli	10.30	lab mikro	Diskusi hasil Autotagore	?
	Kamis	15.00	Ruang Prodi	Parsi dan Draft skripsi	?

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

[illegible]

Lampiran 21 Riwayat Hidup



BIODATA

Nama Lengkap : Syifa Najma Wuljanah
Nama Panggilan : Syifa
Tempat/Tanggal Lahir : Karawang, 30 April 2000
Jenis Kelamin : Perempuan
Agama : Islam
Status Perkawinan : Belum Kawin
Alamat : Dusun Malaka 1 Rt 006/Rw 002 Desa
Pisangsambo Kecamatan Tirtajaya Kabupaten
Karawang Provinsi Jawa Barat
Email : syifanajma08@gmail.com
No. Telp : +62 882-0013-09908

RIWAYAT PENDIDIKAN	
TK Al-Hidayah	2005-2006
SDN Pisangsambo 1	2006-2012
SMPN 1 Tirtajaya	2012-2015
SMK Wirasaba	2015-2018
Universitas Bhakti Kencana (D3 Farmasi)	2018-2021
Universitas Bhakti Kencana (S1 Farmasi)	2022-2024