

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.87/HB/02/2025.

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

Nama : Arum Novia Adiningsih
NIM/NIDN : 231FF04003
Instansi : Universitas Bhakti Kencana.
Lokasi : Bandung.

Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
Tanggal Koleksi : 17 Februari 2025

Hasil Identifikasi

Nama Ilmiah : *Peperomia pellucida* [L.] Kunth
Sinonim : *Peperomia concinna* [Haw.] A. Dietr.
Nama Lokal : Daun Sirih cina
Suku/Famili : Piperaceae

Klasifikasi (Hirarki Taksonomi)

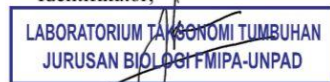
Kingdom : Plantae
Divisi : Magnoliophyta
Class : Magnoliopsida
Ordo : Piperales
Family : Piperaceae
Genus : Peperomia
Species : *Peperomia pellucida* [L.] Kunth

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, 18 Februari 2025.

Identifikator,



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

Lampiran 2 Surat Keterangan Mikroba Uji

1. Jamur *Trichophyton rubrum*

 **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: T. rubrum ATCC 28188 PK/5
Lot Number: 140188
Product Number: R4608301
Expiration Date: 2026-01-07
(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.

In Vitro Hair Perforation: Negative
Urea Test: Negative
Trichophyton Agars: Growth on numbers 1 - 5

CFU/loop: >10(3) Passage: 3
Identification Profile: MicroSEQ®

Macroscopic Morphology: Colony morphology: PDA, 30°C, 10 days - Granular, fluffy, downy, sometimes powdery; white, pale pink. Typically wine red. Sometimes brown, or yellow orange.

Microscopic Morphology: Septate hyphae; numerous lateral tear shaped microconidia, solitary or sometimes in clusters along hyphae. Rare macroconidia, thin walled, pencil or cigar shaped having 2-8 cells, form directly on ends of thick hyphae singly or in groups. Arthroconidia tend to form from both hyphae and macroconidia.

Appearance: Preserved Gel Matrix suspended in inoculating loop
pH: N/A

Page 1 of 2

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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

Signed

Quality Assurance Manager

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Lampiran 2 (lanjutan)

2. Jamur *Candida albicans*

bioMérieux Customer
System E 7000

Printed by: labtech

Patient Name: *Candida albicans*
Isolate Group:

Card Type: GP Testing Instrument: 0000148FF2BD (7903)

Bionumber: 021110364301111
Organism Quantity:

Comments:

Identification Information	Card: GP	Lot Number: 247370010	Expires: 12 Dec 2022
	Completed: May 3, 2018 14:31 CDT	Status: Final	Analysis Time: 6.00 hours
Selected Organism	97% Probability <i>Candida albicans</i> Bionumber: 021110364301111 Confidence: Excellent Identification		
BRF Organism:			
Analysis Organisms and Tests to Separate:			
<i>Candida albicans</i>			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

2	AMY	+	4	P/PLC	-	5	dXYL	-	8	ADHI	-	9	GGAL	+	11	AGLU	-
13	APPA	+	14	CDEX	-	15	AspA	-	16	SGAR	+	17	AMAN	-	19	PHOS	-
20	LeuA	+	23	TrpA	-	24	BGLU	-	25	AGAL	-	26	TrpA	-	27	BGLU	-
28	AlaA	+	29	TyrA	+	30	dSOR	-	31	URE	-	32	POLYD	+	37	dGAL	+
38	dHID	-	39	LATA	-	42	IAC	+	44	NAG	+	45	dMAN	+	46	BACI	-
47	INOVO	-	50	NC65	-	52	dMAN	-	53	dMFE	+	54	MSGO	-	56	YUL	-
57	dRAF	+	58	OT2RH	-	59	SAL	-	60	SAC	+	62	STH2	-	63	ADH2a	-
64	OF1Q	+															

Installed VITEK 2 System Version: 07 01
MIC Interpretation Guideline:
AES Parameter Set Name:

Therapeutic Interpretation Guideline:
AES Parameter Last Modified:

Lampiran 2 (lanjutan)

3. Bakteri *Staphylococcus aureus*



SERTIFIKAT UJI BAKTERI
STAPHYLOCOCCUS AUREUS Atcc.29213



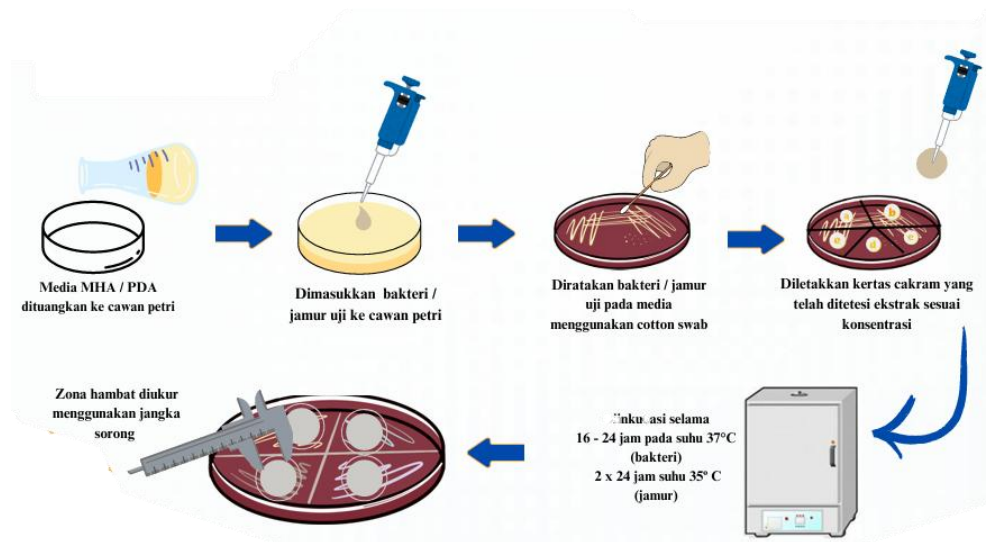
REFERENCE:
DATE: 3/24/22
COMMENT:

GOOD IDENTIFICATION			
Strip	API STAPH V5.0		
Profile	6 7 3 ****		
Note			
Significant taxa	% ID	T	Tests against
Staphylococcus aureus	97.7	1.0	

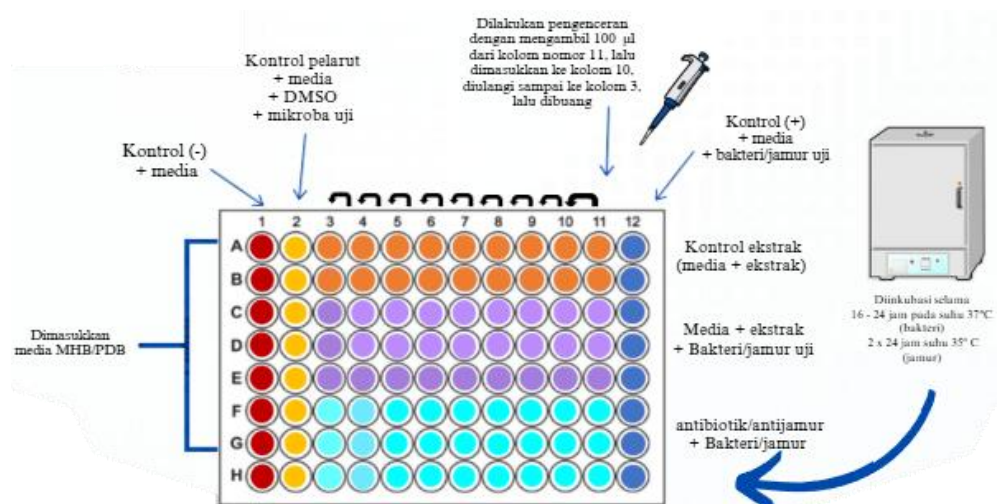
Mengetahui,
Kepala Laboratorium Mikrobiologi-
Bioteknologi Farmasi,
Dr. Tena Rostinawati, M.Si., Apt.
NIP. 197301032006042001

Lampiran 3 Prosedur Penelitian

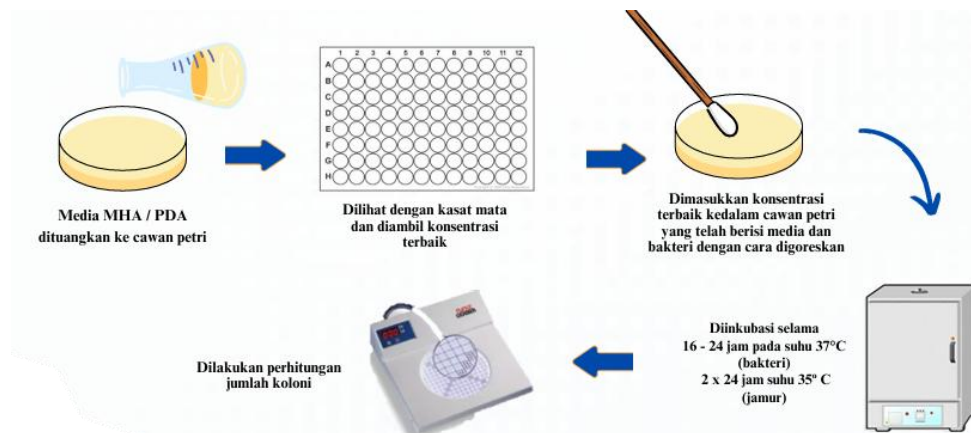
a. Alur prosedur cakram kertas



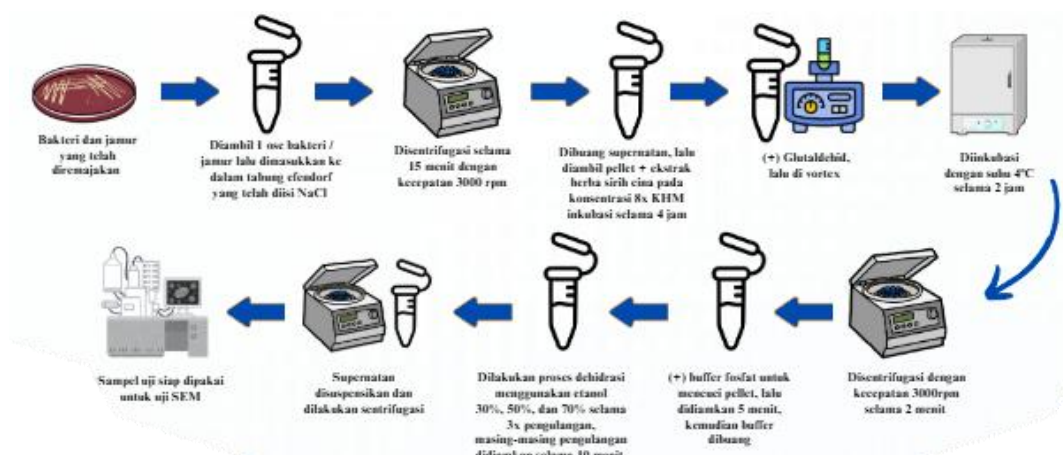
b. Alur prosedur metode mikrodilusi



Lampiran 3 (lanjutan)



c. Alur prosedur *Scanning electron microscopy* (SEM)



Lampiran 4 Perhitungan Rendemen Ekstrak

$$\text{Rendemen ekstrak} = \frac{\text{bobot ekstrak}}{\text{bobot simplisia}} \times 100\%$$

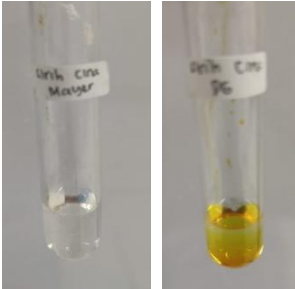
$$\text{Rendemen ekstrak} = \frac{96,1 \text{ gram}}{1000 \text{ gram}} \times 100\%$$

$$\text{Rendemen ekstrak} = 9,61\%$$

Lampiran 5 Hasil Uji Karakterisasi Simplisia

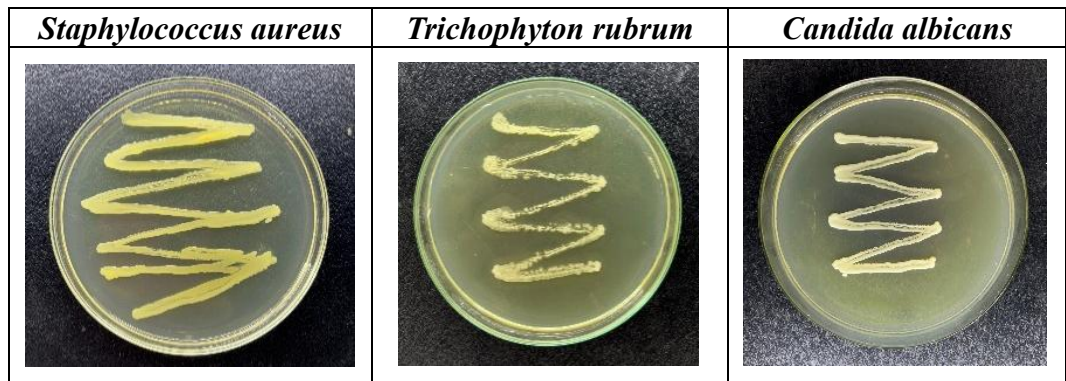
Uji	Dokumentasi	Hasil
Susut pengeringan		9,776 %
Kadar abu		$W = 66,211 \text{ gram}$ $W1 = 61,214 \text{ gram}$ $W2 = 62,094 \text{ gram}$ $\text{Kadar abu} = \frac{w2-w1}{w-w1} \times 100\%$ $= \frac{62,094 \text{ gram} - 61,214 \text{ gram}}{66,211 \text{ gram} - 61,214 \text{ gram}} \times 100\%$ $= 17,61\%$
Kadar sari larut air		$\text{Cawan kosong} : 36,5382 \text{ gram}$ $\text{Cawan isi} : 36,6101 \text{ gram}$ $\text{Kadar sari larut air}$ $= \frac{\text{cawan isi} - \text{cawan kosong}}{\text{bobot simplisia}} \times \frac{\text{vol.pelarut}}{\text{vol.filtrat}} \times 100\%$ $= \frac{36,6101 \text{ gram} - 36,5382 \text{ gram}}{5 \text{ gram}} \times \frac{100 \text{ ml}}{20 \text{ ml}} \times 100\%$ $= 7,19 \%$
Kadar sari larut etanol		$\text{Cawan kosong} : 36,5382 \text{ gram}$ $\text{Cawan isi} : 36,6313 \text{ gram}$ $\text{Kadar sari larut etanol}$ $= \frac{\text{cawan isi} - \text{cawan kosong}}{\text{bobot simplisia}} \times \frac{\text{vol.pelarut}}{\text{vol.filtrat}} \times 100\%$ $= \frac{36,6313 \text{ gram} - 36,5382 \text{ gram}}{5 \text{ gram}} \times \frac{100 \text{ ml}}{20 \text{ ml}} \times 100\%$ $= 9,31 \%$

Lampiran 6 Hasil Skrining Fitokimia

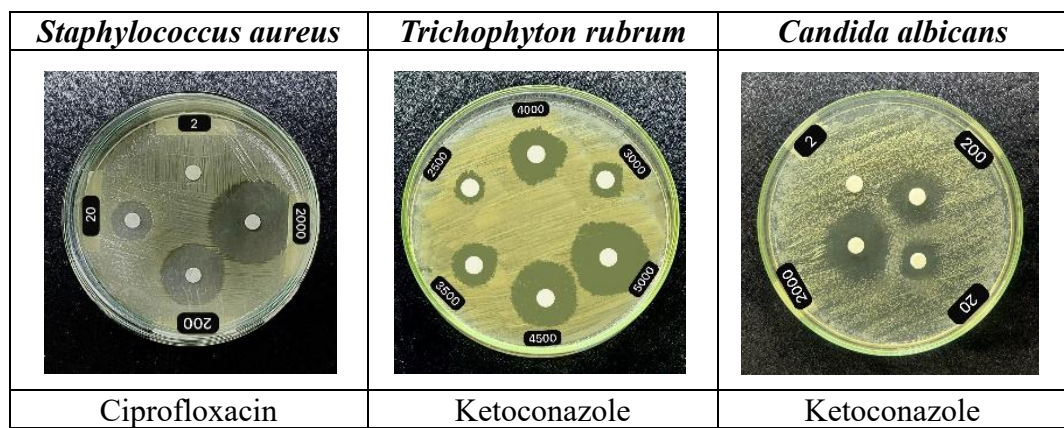
No	Golongan Senyawa	Hasil	Literatur (Emilia et al., 2023)	Dokumentasi
1.	Alkaloid	+ Mayer Terbentuknya endapan putih Dragendroff Terbentuknya endapan merah bata/coklat kemerahan	+	
2.	Flavonoid	+ Terbentuk perubahan warna orange kemerahan	+	
3.	Tanin	+ Terdapat perubahan warna hitam kehijauan	+	
4.	saponin	+ Buih tetap stabil atau tidak hilang	+	
5.	Steroid / triterpenoid	+ Terbentuk warna hijau	+	

Lampiran 7 Hasil Penelitian

1. Peremajaan bakteri dan jamur

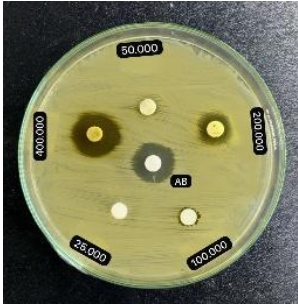
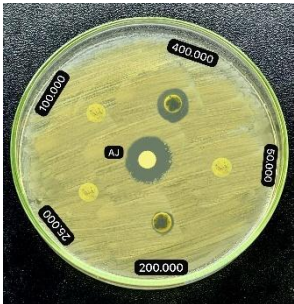
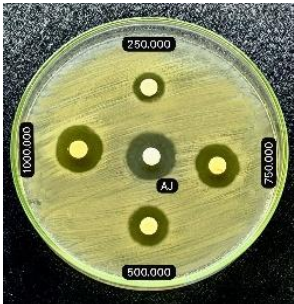
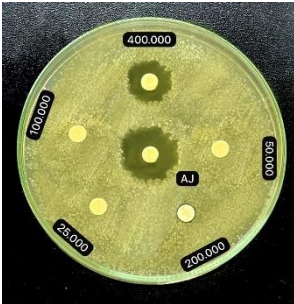
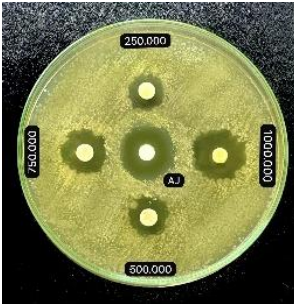


2. Optimasi Antimikroba



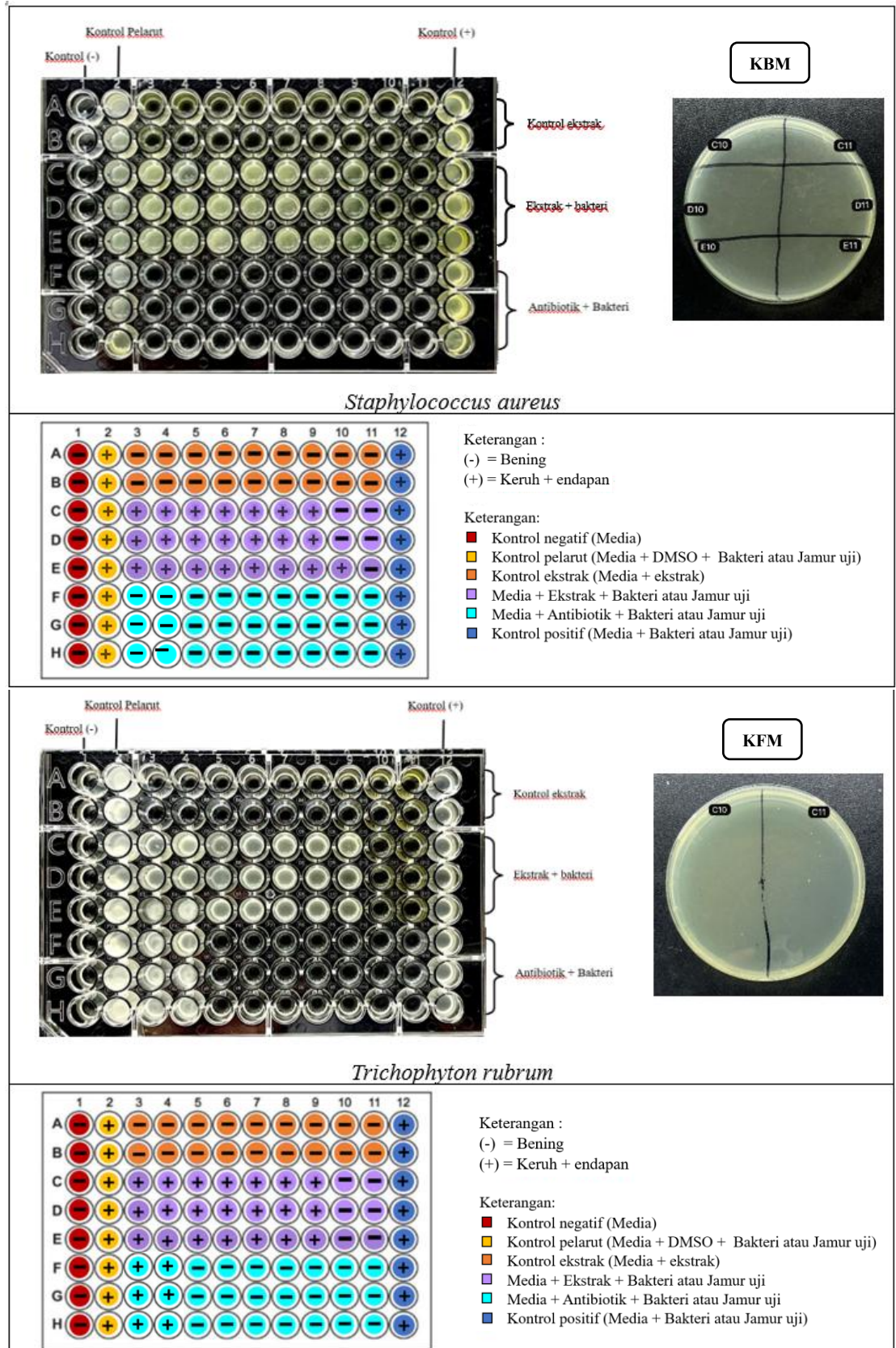
Lampiran 7 (lanjutan)

3. Cakram kertas

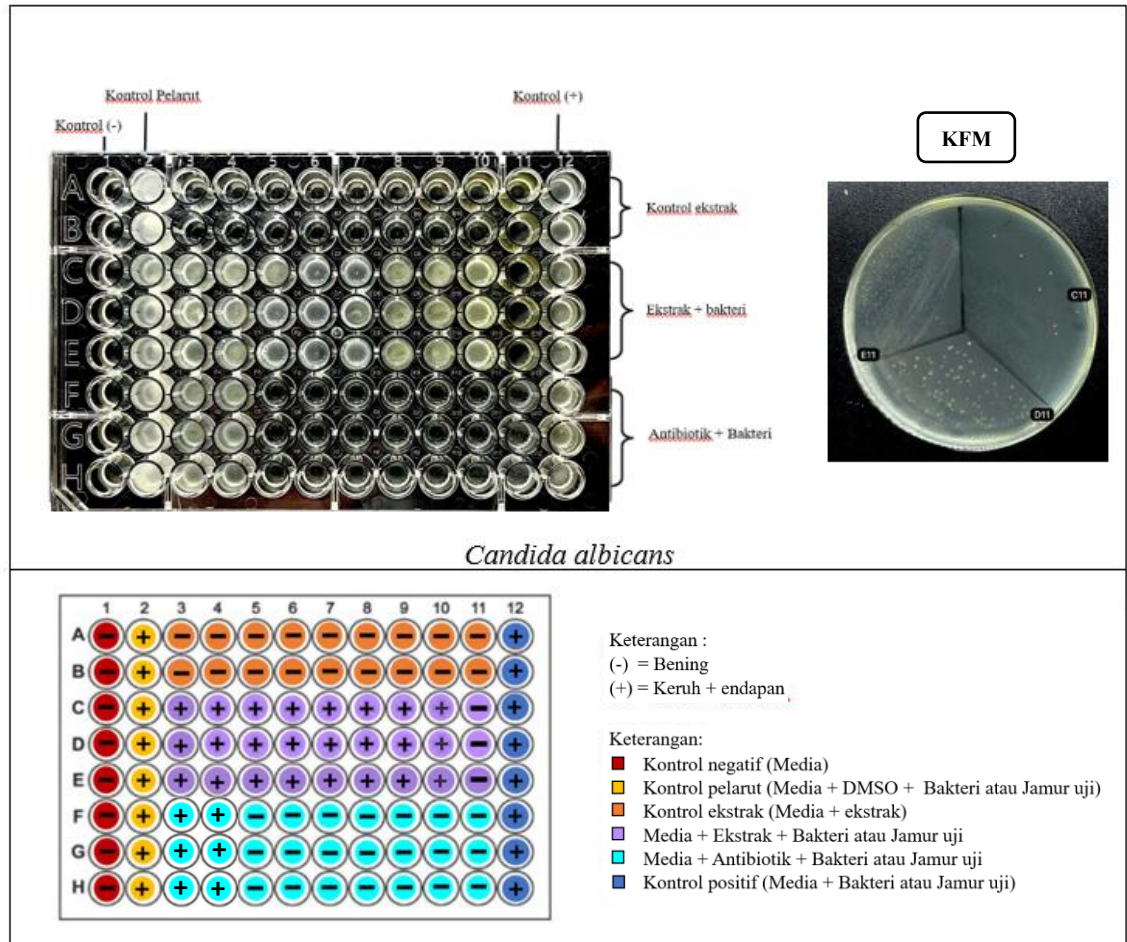
	
<i>Staphylococcus aureus</i>	
	
<i>Trichophyton rubrum</i>	
	
<i>Candida albicans</i>	

Lampiran 7 (lanjutan)

4. Mikrodilusi



Lampiran 7 (lanjutan)



Lampiran 8 Turnitin

Arum Novia Adiningsih_231FF04003_Skripsi.pdf

ORIGINALITY REPORT

11 %	11 %	6 %	6 %
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11	msrblog.com Internet Source	1 %

Lampiran 9 Kartu Bimbingan

NIM	231FF04003	Nama Mahasiswa	ARUM NOVIA ADININGSIH
Program Studi	Farmasi	Jenis TA	Skripsi
Periode Mulai	2024 Genap	SKS Lulus	145 SKS
Tgl. Mulai	3 November 2024	Judul Tugas Akhir	Uji Aktivitas Antimikroba Ekstrak Herba Sirih Cina (<i>Peperomia pellucida</i> L. Kunth) Terhadap Jamur <i>Candida albicans</i> , <i>Trichophyton rubrum</i> , dan Bakteri <i>Staphylococcus aureus</i> .
Tahap	Seminar Kolokium/ Hasil Penelitian (Ujian)	Status	Aktif

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	5 Mei 2025	Dr.opt ELIS SUSILAWATI, M.Si	Diskusi data hasil penelitian	✓	 
1	7 Februari 2025	IKA KURNIA SUKMAWATI	Diskusi metode penelitian	✓	 
2	15 Mei 2025	Dr.opt ELIS SUSILAWATI, M.Si	Mengirimkan draft skripsi	✓	 
2	14 Februari 2025	IKA KURNIA SUKMAWATI	Diskusi prosedur penelitian	✓	 
3	21 Februari 2025	IKA KURNIA SUKMAWATI	Diskusi hasil uji	✓	 
3	22 Mei 2025	Dr.opt ELIS SUSILAWATI, M.Si	Mengirimkan revisian	✓	 
4	25 Februari 2025	IKA KURNIA SUKMAWATI	Diskusi hasil uji	✓	 
4	22 Mei 2025	Dr.opt ELIS SUSILAWATI, M.Si	Penandatanganan form persetujuan maju seminar kolokium gelombang 1	✓	 
5	30 Mei 2025	Dr.opt ELIS SUSILAWATI, M.Si	Mengirim Revisian	✓	 
5	26 Februari 2025	IKA KURNIA SUKMAWATI	Diskusi hasil uji	✓	 
6	6 Maret 2025	IKA KURNIA SUKMAWATI	Diskusi hasil uji	✓	 
6	30 Mei 2025	Dr.opt ELIS SUSILAWATI, M.Si	Mengirim PPT Hasil Penelitian	✓	 
7	2 Mei 2025	IKA KURNIA SUKMAWATI	Kemajuan 1 & laporan hasil penelitian	✓	 
8	5 Mei 2025	IKA KURNIA SUKMAWATI	Diskusi hasil uji	✓	 
8	30 Mei 2025	Dr.opt ELIS SUSILAWATI, M.Si	Mengirimkan revisian	✓	 
9	21 Mei 2025	IKA KURNIA SUKMAWATI	Diskusi bab hasil dan pembahasan	✓	 
10	22 Mei 2025	IKA KURNIA SUKMAWATI	Mengirim revisian bab 4 & Penandatanganan form persetujuan maju seminar kolokium gelombang 1	✓	 
11	30 Mei 2025	IKA KURNIA SUKMAWATI	Diskusi draft skripsi dan PPT	✓	 

Lampiran 10 Riwayat Hidup

BIODATA



Nama Lengkap	: Arum Novia Adiningsih
Nama Panggilan	: Arum
Tempat/Tanggal Lahir	: Jambi, 07 November 2001
Jenis Kelamin	: Perempuan
Agama	: Islam
Status Perkawinan	: Belum Kawin
Alamat	: Jl Karang Sari No.43 RT.04 Kelurahan Kenali Asam Atas, Kecamatan Kota Baru, Kota Jambi, Jambi
Email	: arumnovia07@gmail.com
No. Telp	: +62 853-8166-9130
Anak ke	: 3 dari 3 bersaudara