

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.86/HB/02/2025.

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

Nama : Siti Musdalifah
NIM/NIDN : 231FF04018
Instansi : Universitas Bhakti Kencana.
Lokasi : Bandung.

Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
Tanggal Koleksi : 15 Februari 2025

Hasil Identifikasi

Nama Ilmiah : *Peronema canescens* Jack
Sinonim : *Peronema heterophyllum* Miq.
Nama Lokal : Daun Sungkai
Suku/Famili : Lamiaceae

Klasifikasi (Hirarki Taksonomi)

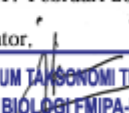
Kingdom : Plantae
Divisi : Tracheophytes
Class : Angiosperms
Ordo : Lamiales
Family : Lamiaceae
Genus : *Peronema*
Species : *Peronema canescens* Jack

Referensi:

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/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, 17 Februari 2025.

Identifikator,


LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA-UNPAD

Drs. Joko Kusmoro, M.P.

NIP. 19600801 199101 1 001

Lampiran 2 Surat Keterangan Bakteri dan jamur

a. *Staphylococcus Aureus* ATCC 29213



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. Tara Rostinawati, M.Si., Apt.
197301032006042001

Lampiran 2 (lanjutan)

b. *Streptococcus mutans* ATCC 35668



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: S. mutans ATCC 35668 PK/5
Lot Number: 594***

Product Number: R4607002
Expiration Date: 2025-06-06
(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 Cocci

Identification Profile: MicroSEQ® or Vitek® 2

Appearance: Preserved Gel Matrix suspended in inoculating loop

pH: N/A

Signed

Quality Assurance Manager

The identity, purity, and authenticity of the Licensed Products are exclusively the responsibility of Remel Inc. and not ATCC. The ATCC Licensed Derivative Emblem, the ATCC Licensed Derivative Word mark, and the ATCC Catalog Marks are trademarks of ATCC. Remel Inc. is licensed to use these trademarks and to sell products derived from ATCC® culture.



Lampiran 2 (lanjutan)

c. *Candida albicans*

bioMérieux Customer
System E: 7509

Printed by: labtech

Patient Name: *Candida albicans*
Isolate Group:

Card Type: GP Testing Instrument: 0000548FF2BD (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>		Confidence: Excellent Identification
	Bionumber: 021110364301111		
SRF Organism			
Analysis Organisms and Tests to Separate:			
<i>Candida albicans</i>			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

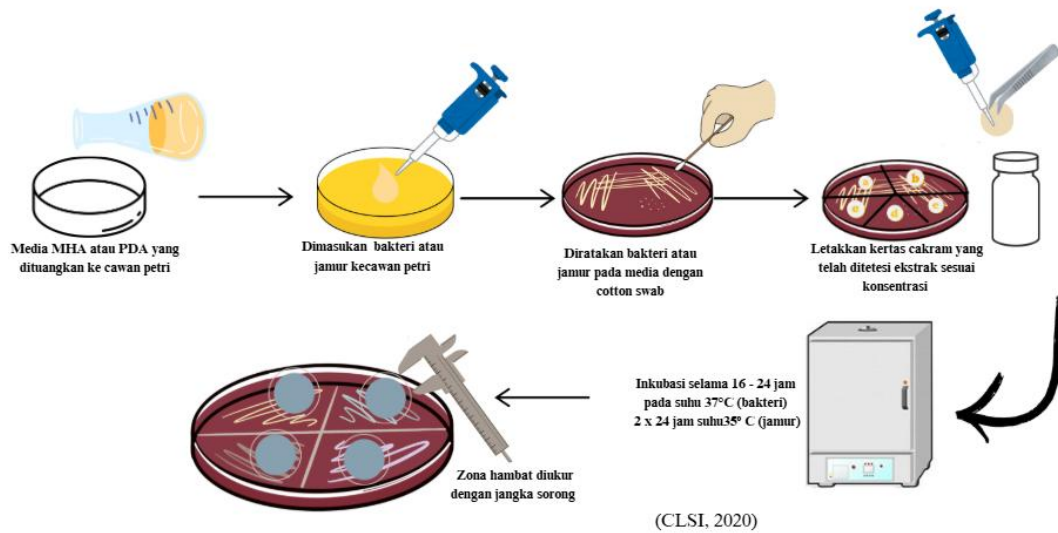
Biochemical Details																	
2	AMY	-	4	RFLC	-	5	SKYL	-	8	ADH1	-	9	GGAL	-	11	ACLU	-
13	APPA	+	14	CDEX	-	15	AspA	-	16	SGAR	+	17	AMAN	-	19	PHOS	-
20	LeuA	+	23	ProA	-	24	BOUT	-	25	AGAL	-	26	ProA	-	27	BOUT	-
28	AlaA	+	29	TyrA	+	30	ISOR	-	31	URE	-	32	POLYB	+	37	ADAI	+
38	STH2	-	39	LATA	-	42	IAC	+	44	NAG	+	45	MAN	+	46	BAC1	-
47	NOVO	-	50	NC6.5	-	52	GMAN	-	53	GMN2	+	54	MS60	-	56	LYL	+
57	GRAF	+	58	Q125H	-	59	SAL	-	60	SAC	+	62	STH2	-	63	ADG2a	-
64	OF10	+															

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

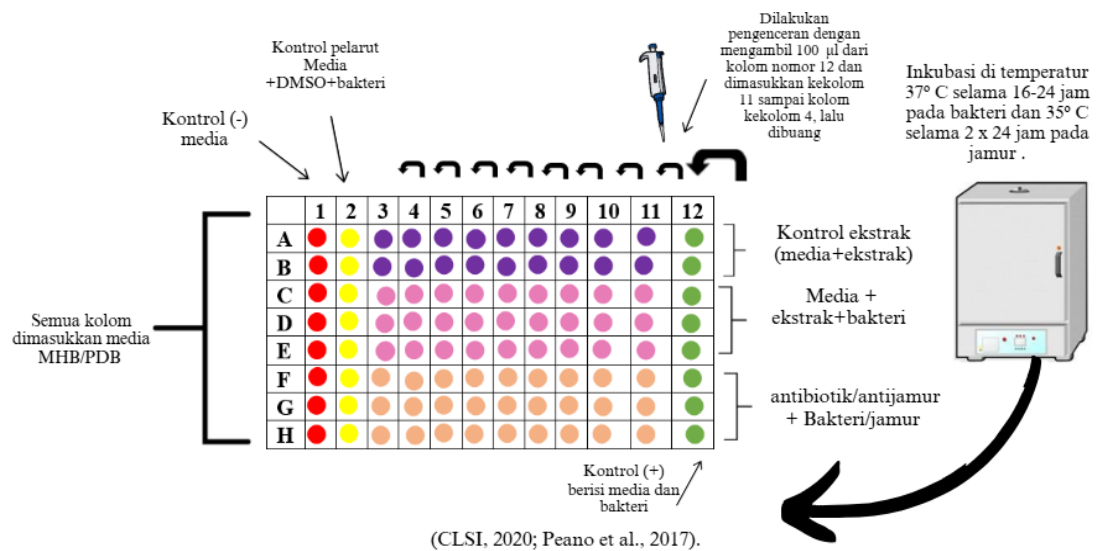
Therapeutic Interpretation Outcome:
AES Parameter Last Modified:

Lampiran 3 Prosedur Penelitian

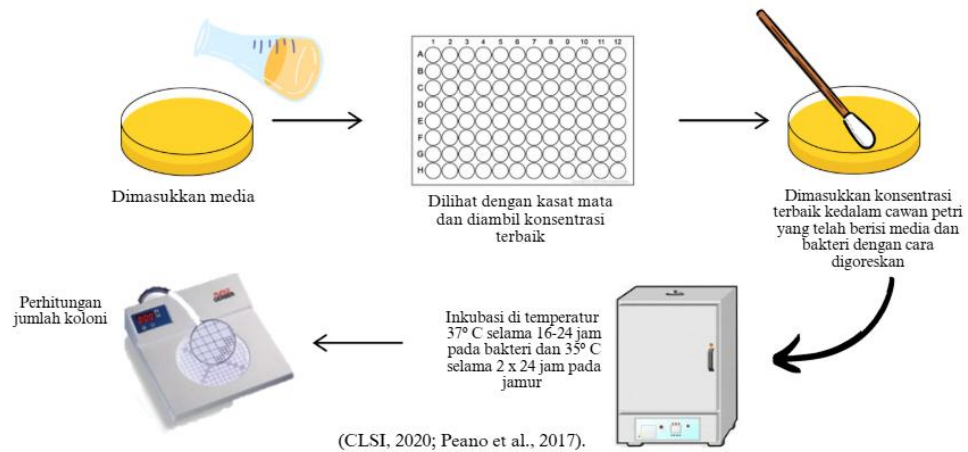
a. Alur prosedur cakram kertas



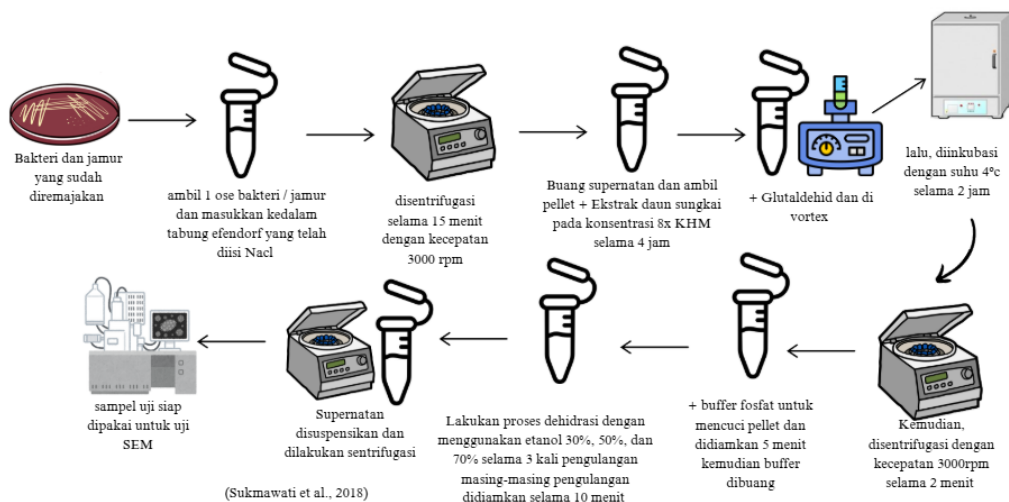
b. Alur prosedur metode mikrodilusi



Lampiran 3 (lanjutan)



c. Alur prosedur SEM



Lampiran 4 Perhitungan Rendemen Ekstrak

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

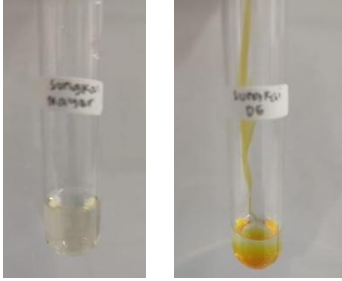
$$\text{Rendemen ekstrak} = \frac{51,6}{500 \text{ gram}} \times 100\%$$

$$\text{Rendemen ekstrak} = 10,32\%$$

Lampiran 5 karakteristik simplisia

Uji	Gambar	Hasil
Susut Pengeringan		7,41%
Kadar Abu		$W = 75,268 \text{ gram}$ $W1 = 70,268 \text{ gram}$ $W2 = 70,583 \text{ gram}$ $\text{Kadar abu} = \frac{w2-w1}{w-w1} \times 100\%$ $= \frac{70,583 \text{ gram} - 70,268 \text{ gram}}{75,268 \text{ gram} - 70,268 \text{ gram}} \times 100\%$ $= 6,3\%$
Kadar Sari larut air		$\text{Cawan Kosong} = 38,7694$ $\text{Cawan isi} = 38,8760$ $= \frac{\text{cawan isi} - \text{cawan kosong}}{\text{bobot simplisia}} \times \frac{\text{vol pelarut}}{\text{vol filtrat}} \times 100\%$ $= \frac{38,8760 - 38,7694}{5 \text{ gram}} \times \frac{100}{20} \times 100\%$ $= 10,66\%$
Kadar sari larut etanol		$\text{Cawan Kosong} = 38,7888$ $\text{Cawan isi} = 38,9958$ $= \frac{\text{cawan isi} - \text{cawan kosong}}{\text{bobot simplisia}} \times \frac{\text{vol pelarut}}{\text{vol filtrat}} \times 100\%$ $= \frac{38,9958 - 38,7888}{5 \text{ gram}} \times \frac{100}{20} \times 100\%$ $= 20,7\%$

Lampiran 6 Hasil Penapisan Fitokimia

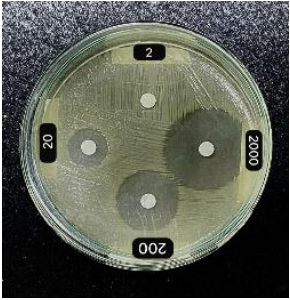
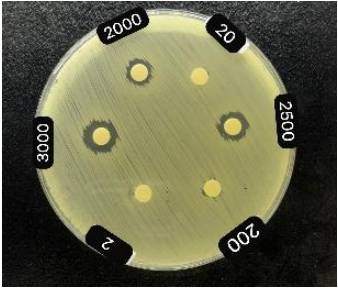
No.	Golongan Senyawa	Gambar	Keterangan (Hasil uji)
1.	Alkaloid		Mayer - Terbentuknya endapan putih - Hasil (+) alkaloid Dragendroff - Terbentuknya endapan merah bata/coklat kemerahan - Hasil (+) alkaloid
2.	Flavonoid		Terbentuknya larutan berwarna orange kemerahan - Hasil (+) flavonoid
3.	Saponin		- Terbentuknya larutan berwarna hijau kehitaman - Hasil (+) saponin
4.	Tanin		- Hasil (+) tanin
5.	Steroid		- Terbentuknya warna hijau kehitaman - Hasil (-) terpenoid

Lampiran 7 Hasil penelitian

1. Hasil peremajaan bakteri dan jamur

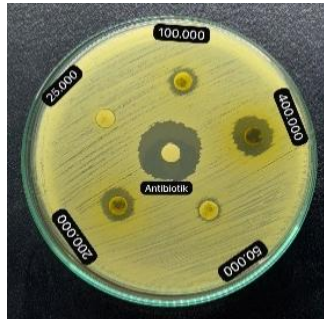
<i>Staphylococcus Aureus</i>	<i>Streptococcus Mutans</i>	<i>Candida Albicans</i>
		

2. Hasil optimasi antibiotic dan antijamur

<i>Staphylococcus Aureus</i>	<i>Streptococcus Mutans</i>	<i>Candida Albicans</i>
		

Lampiran 7 (lanjutan)

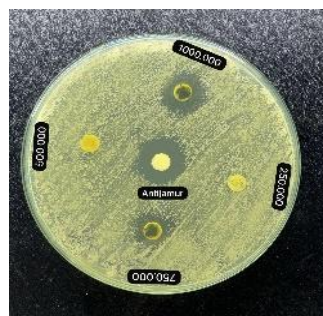
3. Cakram kertas



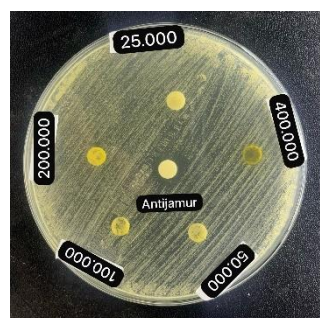
Streptococcus Mutans



Staphylococcus Aureus



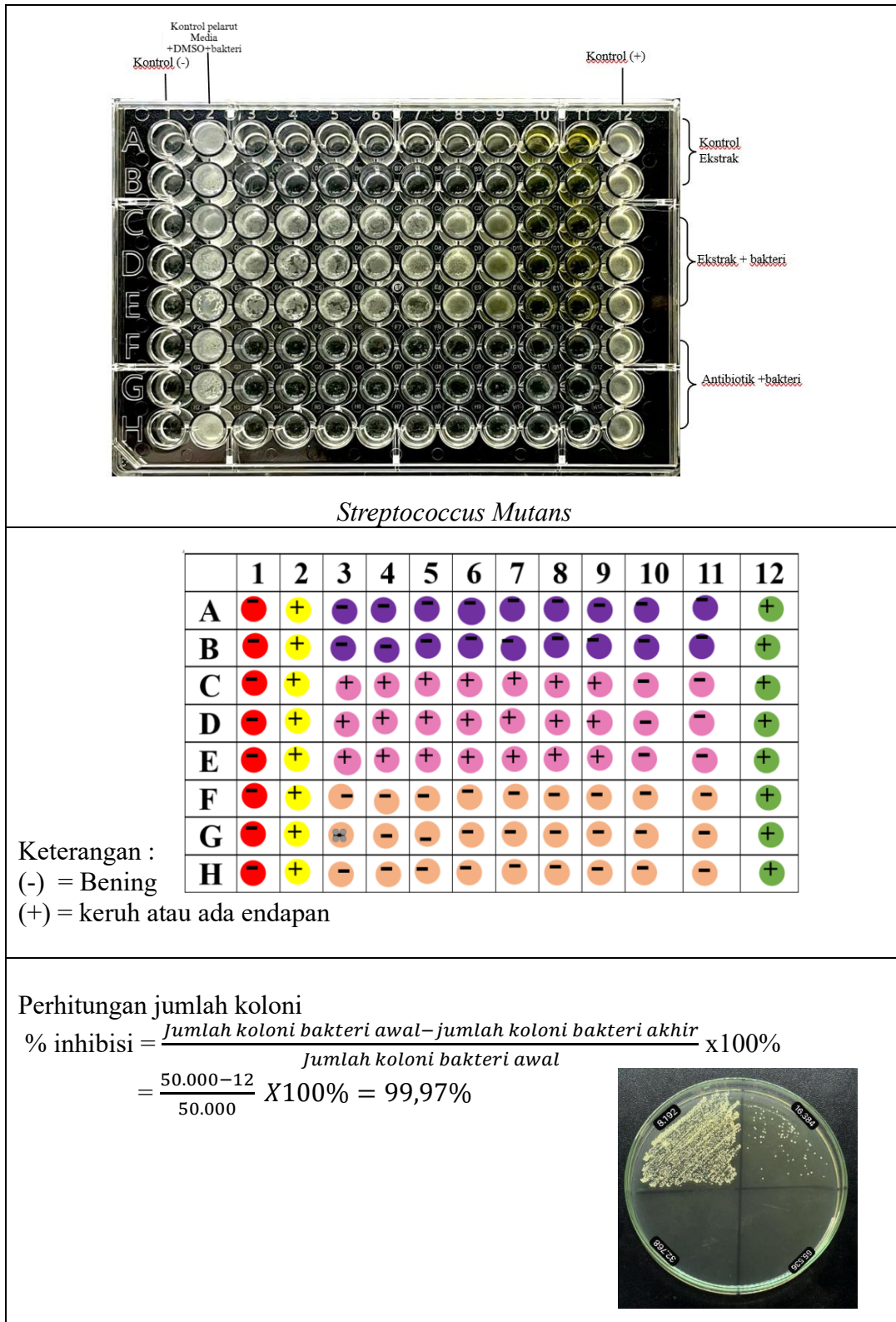
Candida Albicans

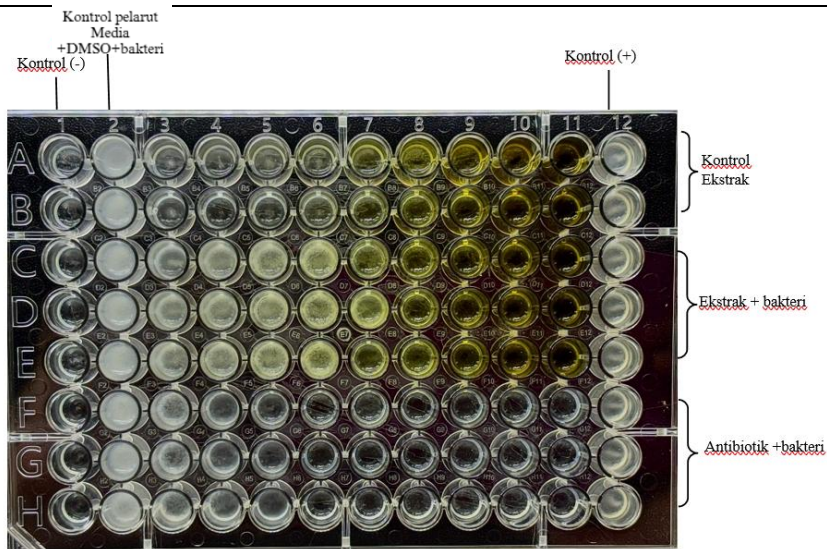


Candida Albicans

Lampiran 7 (lanjutan)

4. Mikrodilusi





Staphylococcus Aureus

	1	2	3	4	5	6	7	8	9	10	11	12
A	-	+	-	-	-	-	-	-	-	-	-	+
B	-	+	-	-	-	-	-	-	-	-	-	+
C	-	+	+	+	+	+	+	-	-	-	-	+
D	-	+	+	+	+	+	+	-	-	-	-	+
E	-	+	+	+	+	+	+	-	-	-	-	+
F	-	+	+	+	+	-	-	-	-	-	-	+
G	-	+	+	+	+	-	-	-	-	-	-	+
H	-	+	+	+	+	-	-	-	-	-	-	+

Keterangan :

(-) = Bening

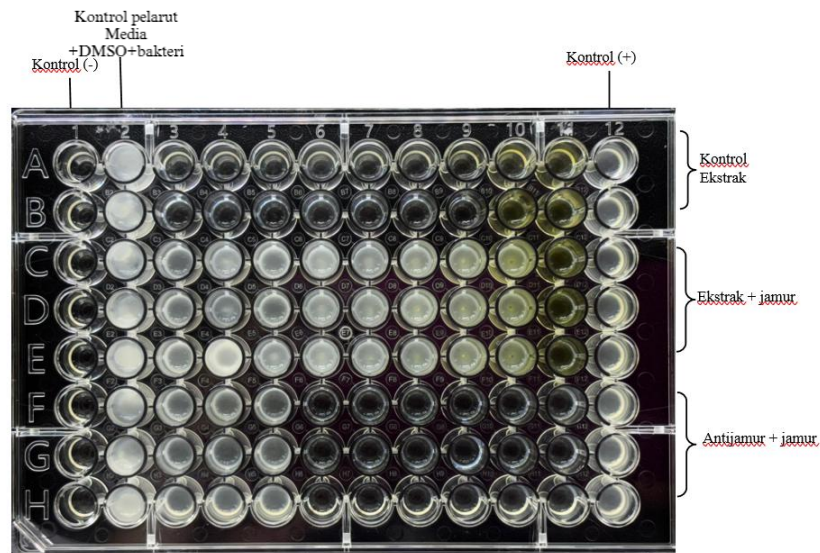
(+) = keruh atau ada endapan

Perhitungan jumlah koloni

$$\% \text{ inhibisi} = \frac{\text{Jumlah koloni bakteri awal} - \text{jumlah koloni bakteri akhir}}{\text{Jumlah koloni bakteri awal}} \times 100\%$$

$$= \frac{50.000 - 0}{50.000} \times 100\% = 100\%$$





Candida Albicans

	1	2	3	4	5	6	7	8	9	10	11	12
A	-	+	-	-	-	-	-	-	-	-	-	+
B	-	+	-	-	-	-	-	-	-	-	-	+
C	-	+	+	+	+	+	+	+	+	+	-	+
D	-	+	+	+	+	+	+	+	+	+	-	+
E	-	+	+	+	+	+	+	+	+	+	-	+
F	-	+	+	+	+	-	-	-	-	-	-	+
G	-	+	+	+	+	-	-	-	-	-	-	+
H	-	+	+	+	+	-	-	-	-	-	-	+

Keterangan :

(-) = Bening

(+) = keruh atau ada endapan

Perhitungan jumlah koloni

$$\% \text{ inhibisi} = \frac{\text{Jumlah koloni jamur awal} - \text{jumlah koloni jamur akhir}}{\text{Jumlah koloni jamur awal}} \times 100\%$$

$$= \frac{50.000 - 130}{50.000} \times 100\% = 99,74\%$$



Lampiran 8 Hasil turnitin

SITI MUSDALIFAH_231FF04018_skripsi docx.pdf			
ORIGINALITY REPORT			
6%	7%	3%	3%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS
PRIMARY SOURCES			
1	repository.usu.ac.id:8080 Internet Source	1%	
2	repository.uta45jakarta.ac.id Internet Source	1%	
3	www.scribd.com Internet Source	1%	
4	journal.ipm2kpe.or.id Internet Source	1%	
5	repository.stikes-kartrasa.ac.id Internet Source	1%	
6	repository.unair.ac.id Internet Source	1%	
7	repository.uinjkt.ac.id Internet Source	1%	
8	repository.unimus.ac.id Internet Source	1%	

Lampiran 9 Kartu Bimbingan

NIM	231FF04018	Nama Mahasiswa	SITI MUSDALIFAH
Program Studi	SI Farmasi	Jenis TA	Skripsi
Periode Mulai	2024 Genap	SKS Lulus	151 SKS
Tgl. Mulai	4 Maret 2025	Judul Tugas Akhir	Aktivitas Antimikroba Ekstrak Etanol Daun Sungkai (<i>Paronema canescens</i> J) terhadap Bakteri <i>Streptococcus mutans</i> , <i>Staphylococcus aureus</i> dan Jamur <i>Candida albicans</i>
Tahap	Sidang Akhir/ Komprehensif (Ujian)	Status	Selesai

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	2 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	mengonfirmasi terkait hasil dan kemajuan I	✓	 
1	7 Februari 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	Diskusi terkait metode penelitian	✓	 
2	14 Februari 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	membahas prosedur	✓	 
2	5 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	melakukan presentasi terkait hasil	✓	 
3	21 Februari 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	megonfirmasi terkait hasil	✓	 
3	15 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	konfirmasi terkait sidang gel I	✓	 
4	22 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	ttd form persetujuan sidang gel I	✓	 
4	7 Maret 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	mengonfirmasi terkait hasil uji	✓	 
5	2 Mei 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	melaporkan hasil uji	✓	 
5	23 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	bimbingan	✓	 
6	5 Mei 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	membahas sampel yang akan digunakan untuk uji sem	✓	 
6	25 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	penyerahan draft skripsi	✓	 
7	21 Mei 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	Bimbingan hasil sem	✓	 
7	28 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	persetujuan sidang kolokium	✓	 
8	22 Mei 2025	Dr. apt. Ika Kurnia Sukmawati, M.Si	bimbingan dan ttd form persetujuan	✓	 
8	29 Mei 2025	Dr. apt. Widhya Aligita, M.Si.	mengumpulkan draft ppt	✓	 

Lampiran 10 Riwayat Hidup

BIODATA



Nama Lengkap	: Siti Musdalifah
Nama Panggilan	: Siti
Tempat/Tanggal Lahir	: Jambi, 03 September 2001
Jenis Kelamin	: Perempuan
Agama	: Islam
Status Perkawinan	: Belum Kawin
Alamat	: Jl Mayjend Sutoyo RT 08 No 18 Kelurahan Pematang Sujur Kecamatan Telanaipura Kota Jambi
Email	: Sitimusdalifah3345@gmail.com
No. Telp	: +62 831-7160-7449
Anak ke	: 1 dari 1 bersaudara