

## LAMPIRAN

### Lampiran 1 Perhitungan Rendemen Ekstrak Daun Kakao

Perhitungan Rendemen Ekstrak Daun Kakao

$$\text{Rendemen ekstrak (\%)} = \frac{\text{bobot ekstrak dihasilkan}}{\text{bobot awal simplisia yang digunakan}} \times 100\%$$

Dik:

$$\text{Bobot ekstrak yang dihasilkan} = 11,8 \text{ gr}$$

$$\text{Bobot awal simplisia yang digunakan} = 200 \text{ gr}$$

$$\begin{aligned} \text{Rendemen ekstrak (\%)} &= \frac{11,8 \text{ gr}}{200 \text{ gr}} \times 100\% \\ &= 5,85\% \end{aligned}$$

### Lampiran 2 Perhitungan Pembuatan Konsentrasi Ekstrak

Rumus pengenceran ekstrak kental adalah sebagai berikut:

$$C1 \times V1 = C2 \times V2$$

Keterangan:

C1 = konsentrasi pengenceran tertinggi ekstrak

V1 = volume konsentrasi tertinggi ekstrak

C2 = konsentrasi ekstrak yang akan dibuat

V2 = volume konsentrasi yang akan dibuat

Larutan stok = 5 ml

#### a. Konsentrasi 25%

$$C1 \times V1 = C2 \times V2$$

$$100\% \times V1 = 25\% \times 5 \text{ ml}$$

$$V1 = 1,25 \text{ gr}$$

**b. Konsentrasi 50%**

$$C_1 \times V_1 = C_2 \times V_2$$

$$100\% \times V_1 = 50\% \times 5 \text{ ml}$$

$$V_1 = 2,5 \text{ gr}$$

**c. Konsentrasi 75%**

$$C_1 \times V_1 = C_2 \times V_2$$

$$100\% \times V_1 = 75\% \times 5 \text{ ml}$$

$$V_1 = 3,75 \text{ gr}$$

**Lampiran 3 Perhitungan Media****a. Media *Nutrient Broth* (NB)**

$$\text{Rumus} = \frac{M_1}{M_2} = \frac{V_1}{V_2}$$

Keterangan:

M1 = berat standar pengenceran media

M2 = berat standar pengenceran yang ditubuhkan

V1 = volume standar pengenceran media

V2 = volume yang ingin dibuat

$$NB = \frac{8 \text{ gr}}{x} = \frac{1000 \text{ ml}}{25 \text{ ml}}$$

$$x = \frac{8 \text{ gr} \times 25 \text{ ml}}{1000 \text{ ml}}$$

$$x = \frac{200 \text{ gr}}{1000 \text{ ml}}$$

$$x = 0,2 \text{ gr.}$$

**b. Media *Mueller-Hinton Agar* (MHA)**

$$\text{Rumus} = \frac{M1}{V1} = \frac{M2}{V2}$$

Keterangan:

M1 = berat standar pengenceran media

M2 = berat standar pengenceran yang ditubuhkan

V1 = volume standar pengenceran media

V2 = volume yang ingin dibuat

$$MHA = \frac{38 \text{ gr}}{x} \times \frac{1000 \text{ ml}}{40 \text{ ml}}$$

$$x = \frac{38 \text{ gr} \times 40 \text{ ml}}{1000 \text{ ml}}$$

$$x = \frac{1.520 \text{ gr}}{1000 \text{ ml}}$$

$$x = 1,52 \text{ gr.}$$

**Lampiran 4 Perhitungan Daya Hambat Bakteri**

Rumus mengukur diameter zona hambat:

$$d = \frac{d1 + d2 + d3 + d4}{n}$$

Keterangan:

d = Diameter zona hambat

d1 = Diameter zona hambat 1

d2 = Diameter zona hambat 2

d3 = Diameter zona hambat 3

d4 = Diameter zona hambat 4

n = Jumlah pengukuran

**a. Cawan I**

$$50\% = \frac{13 \text{ cm} + 15 \text{ cm}}{2}$$

$$= \frac{28 \text{ cm}}{2}$$

$$= 14 \text{ mm}$$

$$75\% = \frac{16 \text{ cm} + 16 \text{ cm}}{2}$$

$$= \frac{32 \text{ cm}}{2}$$

$$= 16 \text{ mm}$$

$$100\% = \frac{18 \text{ cm} + 18 \text{ cm}}{2}$$

$$= \frac{36 \text{ cm}}{2}$$

$$= 18 \text{ mm}$$

$$K+ = \frac{20 \text{ cm} + 22 \text{ cm}}{2}$$

$$= \frac{42 \text{ cm}}{2}$$

$$= 21 \text{ mm}$$

**b. Cawan II**

$$50\% = \frac{10 \text{ cm} + 12 \text{ cm}}{2}$$

$$= \frac{22 \text{ cm}}{2}$$

$$= 11 \text{ mm}$$

$$75\% = \frac{14 \text{ cm} + 15 \text{ cm}}{2}$$

$$= \frac{29 \text{ cm}}{2}$$

$$= 14,5 \text{ mm}$$

$$100\% = \frac{18 \text{ cm} + 19 \text{ cm}}{2}$$

$$= \frac{37 \text{ cm}}{2}$$

$$= 18,5 \text{ mm}$$

$$K+ = \frac{21 \text{ cm} + 23 \text{ cm}}{2}$$

$$= \frac{44 \text{ cm}}{2}$$

$$= 22 \text{ mm}$$

**c. Cawan III**

$$50\% = \frac{12 \text{ cm} + 14 \text{ cm}}{2}$$

$$= \frac{26 \text{ cm}}{2}$$

$$= 13 \text{ mm}$$

$$75\% = \frac{14 \text{ cm} + 14 \text{ cm}}{2}$$

$$= \frac{28 \text{ cm}}{2}$$

$$= 14 \text{ mm}$$

$$100\% = \frac{18 \text{ cm} + 17 \text{ cm}}{2}$$

$$= \frac{35 \text{ cm}}{2}$$

$$= 17,5 \text{ mm}$$

$$K+ = \frac{20 \text{ cm} + 22 \text{ cm}}{2}$$

$$= \frac{42 \text{ cm}}{2}$$

$$= 21 \text{ mm}$$

## Lampiran 5 Data Hasil Analisis SPSS Ekstrak Etanol Daun Kakao

### a. Uji Normalitas Data

#### Test of Normality

Konsentrasi		Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Zona Hambat	K+	,175	3	.	1,000	3	1,000
	K-	.	3	.	.	3	.
	25%	.	3	.	.	3	.
	50%	,253	3	.	,964	3	,637
	75%	,175	3	.	1,000	3	1,000
	100%	,175	3	.	1,000	3	1,000

a. Lilliefors Significance Correction

### b. Uji Homogenitas Data

#### Test of Homogeneity of Variances

##### Zona Hambat

		Levene Statistic	df1	df2	Sig.
Zona Hambat	Based on Mean	2,320	5	12	,108
	Based on Median	1,500	5	12	,261
	Based on Median and with adjusted df	1,500	5	6,000	,316
	Based on trimmed mean	2,270	5	12	,114

**c. Post Hoc Test**

**Multiple Comparisons**

Dependent Variable: Zona Hambat

Tukey HSD

(I) Konsentrasi	(J) Konsentrasi	Mean Difference (I- J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
K+	K-	21,00000*	,76980	,000	18,4143	23,5857
	25%	21,00000*	,76980	,000	18,4143	23,5857
	50%	8,33333*	,76980	,000	5,7476	10,9190
	75%	6,00000	,76980	,000	3,4143	8,5857
	100%	3,00000*	,76980	,020	,4143	5,5857
K-	K+	-21,00000*	,76980	,000	-23,5857	-18,4143
	25%	,00000	,76980	1,000	-2,5857	2,5857
	50%	-12,66667*	,76980	,000	-15,2524	-10,0810
	75%	-15,00000*	,76980	,000	-17,5857	-12,4143
	100%	-18,00000*	,76980	,000	-20,5857	-15,4143
25%	K+	-21,00000*	,76980	,000	-23,5857	-18,4143
	K-	,00000	,76980	1,000	-2,5857	2,5857
	50%	-12,66667*	,76980	,000	-15,2524	-10,0810
	75%	-15,00000*	,76980	,000	-17,5857	-15,4143
	100%	-18,00000*	,76980	,000	-20,5857	-15,6412
50%	K+	-8,33333*	,76980	,000	-10,9190	-5,7476
	K-	12,66667	,76980	,000	10,0810	15,2524
	25%	12,66667*	,76980	,000	10,0810	15,2524
	75%	-2,33333	,76980	,086	-4,9190	,2524
	100%	-5,33333*	,76980	,000	-7,9190	-2,7476
75%	K+	-6,00000*	,76980	,000	-8,5857	-3,4143
	K-	15,00000*	,76980	,000	12,4143	17,5857
	25%	15,00000*	,76980	,000	12,4143	17,5857
	50%	2,33333*	,76980	,086	-,2524	4,9190
	100%	-3,00000*	,76980	,020	-5,5857	-,4143

100%	K+	-3,00000*	,76980	,020	-5,5857	-,4143
	K-	18,00000*	,76980	,000	15,4143	20,5857
	25%	18,00000*	,76980	,000	15,4143	20,5857
	50%	5,33333*	,76980	,000	2,7476	7,9190
	75%	3,00000*	,76980	,020	,4143	5,5857

\*. The mean difference is significant at the 0.05 level.

#### d. Uji Tukey Subset

##### Zona Hambat

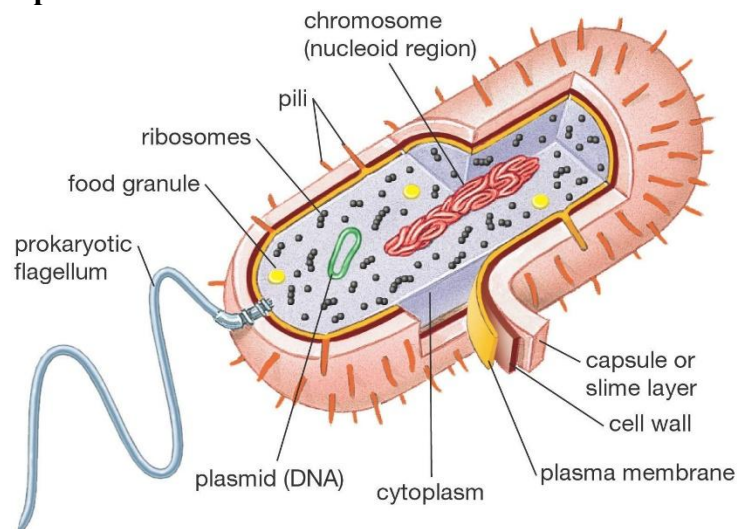
Tukey HSD

Konsentrasi	N	Subset for alpha = 0.05			
		1	2	3	4
K-	3	,0000			
25%	3	,0000			
50%	3		12,6667		
75%	3		15,0000		
100%	3			18,0000	
K+	3				21,0000
Sig.		1,000	,086	1,000	1,000




Means for groups in homogeneous subsets are displayed.




a. Uses Harmonic Mean Sample Size = 3,000.




#### Lampiran 6 Struktur Sel Bakteri




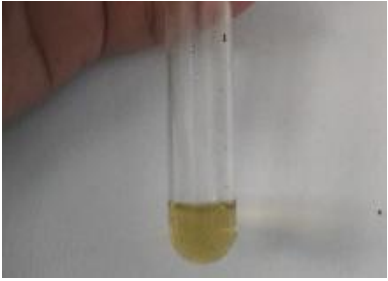
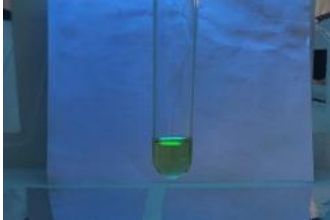

**Lampiran 7** Pembuatan Simplisia dan Ekstrak Daun Kakao

<b>No.</b>	<b>Gambar</b>	<b>Keterangan</b>
1.		Pengambilan Sampel
2.		Perajangan Simplisia
3.		Pengeringan Simplisia

4.		Serbuk Simplisia
5.		Proses Ekstraksi (Maserasi)
6.		Penyaringan




7.		Pengentalan ( <i>Rotary Evaporatory</i> )
8.		Penguapan
9.		Ekstrak Kental

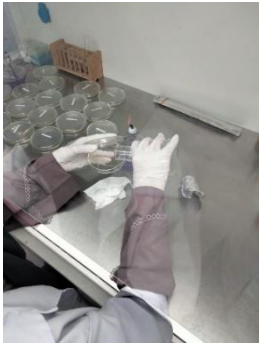

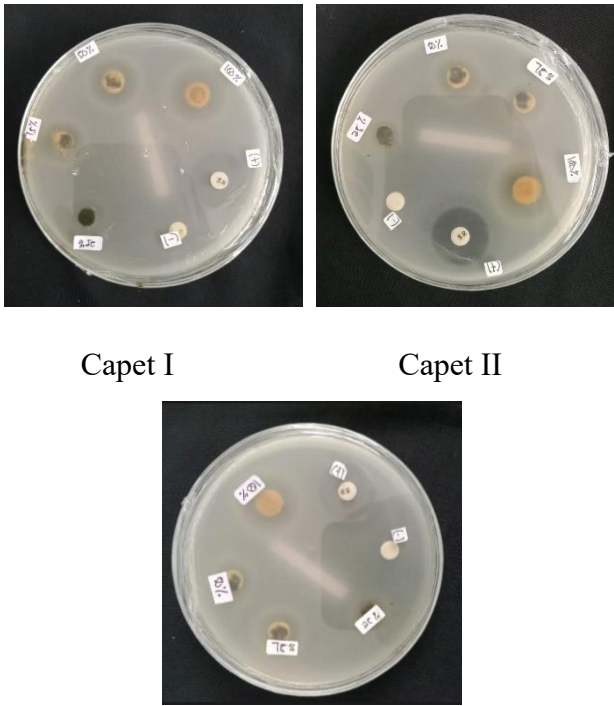
**Lampiran 8 Uji Skrining Fitokimia**

No.	Gambar	Keterangan
1.		+ Alkaloid (Uji Meyer)
2.		+ Alkaloid (Uji Dragendorff)
3.		+ Flavonoid
4.		+ Saponin

5.		+ Tanin
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### Lampiran 9 Uji Antibakteri

No.	Gambar	Keterangan
1.		Sterilisasi
2.		Pembuatan Suspensi
3.		Pembuatan Media MHA

4.		Penuangan Media
5.		Peletakan Kertas Cakram
6.	 <p>Capet I                      Capet II</p> <p>Capet III</p>	Hasil Zona Hambat

## Lampiran 10 Surat Izin Penelitian



MAJELIS PENDIDIKAN TINGGI, PENELITIAN DAN PENGEMBANGAN  
**UNIVERSITAS MUHAMMADIYAH PALOPO**  
 LEMBAGA PENELITIAN DAN PENGABDIAN KEPADA  
 MASYARAKAT (LPPM)

Lt. 2 Gedung MCC Universitas Muhammadiyah Palopo  
 Jl. Jend. Sudirman Km. 03 Binturu, Kota Palopo (91959) – Telp/Fax: (0471) 327429

Nomor : 617/III.3.AU/LPPM/F/2025 Palopo, 25 Oktober 2025  
 Lampiran : -  
 Perihal : Permohonan Izin Penelitian

Kepada Yth  
**Kepala Laboratorium Farmasi Universitas Muhammadiyah Palopo**  
 Di\_ \_\_\_\_\_  
 Tempat \_\_\_\_\_

*Assalamu'alaikum warahmatullahi wabarakatuh*

Dengan hormat, disampaikan bahwa dalam rangka pelaksanaan penelitian Mahasiswa Universitas Muhammadiyah Palopo, mohon kiranya diberikan izin untuk melakukan penelitian kepada:

Nama : Intan Azura  
 NIM : 221320101  
 Jurusan : SI Farmasi  
 Alamat : Masamba  
 Jenis Kelamin : Perempuan  
 No.Hp/Wa : 08225115500

Untuk melakukan penelitian dengan judul **“Uji Daya Hambat Ekstrak Daun Kakao (*Theobroma cacao* L.) Terhadap Pertumbuhan Bakteri *Methicillin-resistant Staphylococcus aureus* (MRSA)”** penelitian akan dilaksanakan pada November-Desember 2025

Demikian permohonan dari kami, atas kerjasama yang baik diucapkan terima kasih.

*Wassalamu'alaikum warahmatullahi wabarakatuh*

Ka.LPPM,



Tembusan:  
 - Dekan Bersangkutan  
 - Peringgal

## Lampiran 11 Surat Izin Penelitian di Laboratorium

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### SURAT IZIN PENELITIAN

Yang bertanda tangan di bawah ini Sekretaris Program Studi Farmasi menyatakan,

Nama : INTAN ALURA

NIM : 221320101

Dapat melaksanakan penelitian di Laboratorium Mikrobiologi & Kimia Fakultas Farmasi Universitas Muhammadiyah Palopo.

Palopo, 03-12-2025



Apt. Andi Sry Hardiyanti, S.Farm., M.Farm  
NUPTK. 4049774675230303

## Lampiran 12 Sertifikat Disk Vankomisin




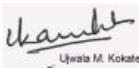

Certified : ISO 9001:2015, ISO 13485:2016 and WHO GMP

## HiMedia Laboratories Private Limited

C-40, Road No.21Y, MIDC, Wagle Ind. Area, Thane(W) - 400604

Website : www.himedialabs.com, Email : info@himedialabs.com

**Certificate of Analysis , Quality and Conformity**


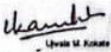
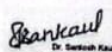
Material Code : SD045	Material Name : Vancomycin VA 30 mcg	Lot No : 0000716853
AR No.: 40001615333	Date of Report : 2025-08-13	Exp. Date : 2027-07
TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b> 1 Appearance	Filter paper discs of 6 mm diameter with printed "VA 30" on centre of each side of the disc.	Complies
<b>Cultural response</b> 1 Cultural response	Average diameter of zone of inhibition observed on Mueller Hinton Agar (M173) after 18 hours incubation at 35-37°C for standard cultures.	Complies
<b>Staphylococcus aureus ATCC 25923</b> 1 Zone of inhibition (mm)	17mm - 21mm	20mm
<p>The performance of this batch has been tested and standardized as per CLSI Standards.</p> <p><b>STATUS OF THE MATERIAL : APPROVED</b></p> <p>This is to certify that this lot passes and it confirms to the above mentioned tests and specifications . The information given here is believed to be correct and accurate, however, both the information and products are offered without warranty for any particulars use, other than that specified in the current HiMedia manual or product sheets.</p> <p><b>This document has been produced electronically and is valid</b></p>		
 Shradha Reval Microbiologist/Sr.Executive Microbiologist	 Ujwala M. Kokate Asst./Dy/QC Manager	 Dr. Santosh Kaul Dy/QA Manager

Lampiran 13 Sertifikat *Paper Disk Steril***HIMEDIA**<sup>®</sup>

Certified : ISO 9001:2015, ISO 13485:2016 and WHO GMP

HIMedia Laboratories Private Limited  
 C-40, Road No.21 Y, MIDC, Wagle Ind. Area, Thane(W) - 400604  
 Website : www.himedialabs.com, Email : info@himedialabs.com

**Certificate of Analysis , Quality and Conformity**

Material Code : SD067	Material Name : Sterile Discs	Lot No : 0000717394
AR No.: 40001616515	Date of Report : 2025-08-29	Exp. Date : 2028-07
TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>		
1 Appearance	Filter paper discs of 6mm diameter.	Complies
<b>Cultural Response</b>		
1 Cultural response	Sterility checked for 14 days in Fluid Thioglycollate Medium at 30-35°C and Soyabean Casein Digest Medium at 20-25°C	Complies
<b>Fluid Thioglycollate Medium</b>		
1 Test sample	Clear ,no growth observed	Complies
2 Positive control	Luxuriant growth observed	Complies
3 Negative control	Clear ,no growth observed	Complies
<b>Soyabean Casein Digest Medium</b>		
1 Test sample	Clear ,no growth observed	Complies
2 Positive control	Luxuriant growth observed	Complies
3 Negative control	Clear ,no growth observed	Complies
<b>STATUS OF THE MATERIAL : APPROVED</b>		
<p>This is to certify that this lot passes and it conforms to the above mentioned tests and specifications . The information given here is believed to be correct and accurate, however, both the information and products are offered without warranty for any particular use, other than that specified in the current HIMedia manual or product sheets.</p> <p style="text-align: center;"><i>This document has been produced electronically and is valid</i></p>		
 Sushil H Microbiologist/Sr.Executive Microbiologist	 Upvash M. Kulkarni Asst./Dy/QC Manager	 Dr. Suresh Khand Dy/QA Manager

**Lampiran 14 Surat Keterangan Layak Penelitian**

**Lembaga Penelitian dan Pengabdian kepada Masyarakat  
Universitas Muhammadiyah Palopo  
Institution of Research and Community Services  
Muhammadiyah University Palopo**

**KETERANGAN LAYAK PENELITIAN  
ETHICAL APPROVAL LETTER**  
Nomor/Number: 196/KEP/III.3.AU/F/2026

Komisi Etik Penelitian Universitas Muhammadiyah Palopo, setelah mempelajari dan melakukan kajian etik secara seksama usulan rancangan penelitian, dengan ini menyatakan bahwa penelitian dengan:

*The Research Ethics Commission of Muhammadiyah University Palopo, having thoroughly scutinized and completed ethical reviews on the research plan proposal, hereby certifies that:*

**Judul** : Uji Daya Hambat Dari Ekstrak Daun Kakao (*Theobroma Cacao L*) Terhadap Pertumbuhan Bakteri Methicillin-Resistant *Staphylococcus Aureus* (MRSA)

**Title** : Inhibitory Test of Cocoa Leaf Extract (*Theobroma Cacao L.*) Against the Growth of Methicillin-Resistant *Staphylococcus Aureus* (MRSA) Bacteria

**Researcher** : 1. Intan Azura  
2. Apt. Anugrah Umar, S.Si., M.Si  
3. Dr. Andi Nadirah, M.Apt., M.Kes., M.MRS

Dengan ini menyatakan bahwa protokol tersebut DITERIMA  
Hereby declares that the protocol is APPROVED

Palopo, 28 April 2026  
Ketua / Chairman  
  
Junaidi, S.E., M.Ak., Ph.D.  
NIDN.0910067705

## Lampiran 15 Surat Keterangan Penelitian Laboratorium Selesai



PIMPINAN PUSAT MUHAMMADIYAH  
MAJELIS PENDIDIKAN TINGGI, PENELITIAN, DAN PENGEMBANGAN  
**UNIVERSITAS MUHAMMADIYAH PALOPO**  
**FAKULTAS ILMU KESEHATAN**  
**PROGRAM STUDI FARMASI**  
**LABORATORIUM FARMASI**

Kampus: Jl. Jenderal Sudirman Km. 3 Binturu Kota Palopo  
Telp/Fax. (0471) 327429 Email: [institusi@umpalopo.ac.id](mailto:institusi@umpalopo.ac.id)  
Website: <http://www.umpalopo.ac.id>

**SURAT KETERANGAN**

**NOMOR: 004KET/III.3.AU/LAB-FARM/F/2024**

Yang bertanda tangan dibawah ini :

Nama : apt. Waode Suiyarti., S.Si., M.Si

Jabatan : Ketua Program Studi Farmasi

Menerangkan dengan sesungguhnya bahwa :

Nama : Intan Azura

Nim : 221320101

Judul : Uji Daya Hambat Dari Ekstrak Daun Kakao (Theobroma cacao L.)  
Terhadap Pertumbuhan Bakteri Methicillin-Resistant  
Staphylococcus Aureus (MRSA)

Jurusan/Prodi : Farmasi (S1)

Perguruan Tinggi : Universitas Muhammadiyah Palopo

Telah menyelesaikan segala kewajiban terkait dengan peminjaman/penggunaan fasilitas Laboratorium selama yang bersangkutan melaksanakan kegiatan penelitian di lingkup laboratorium Farmasi Universitas Muhammadiyah Palopo, sehingga diberikan Surat Keterangan bebas Laboratorium ini.

Demikian Surat Keterangan ini diberikan untuk dipergunakan sebagaimana mestinya.

Palopo, 25 Mei 2026

Ketua Program Studi Farmasi



apt. Waode Suiyarti., S.Si., M.Si

NIDN. 0904108703



## KONSULTASI DAN MONITORING KARYA TULIS ILMIAH


Nama	Inah Azwa		
Nomor Induk Mahasiswa	221306101		
Program Studi	Farmasi		
Nama Dosen Pembimbing	1. Afa. Anugrah Umar C.Si., M.Si 2. Dr. Andi Habibah M. Afa., M. Kes., M. SVE		
Tanggal Berita Acara Seminar UP			
Judul Karya tulis ilmiah:	Uji Daya Hambat Kesi Efektif Daun Kakao (Theobroma cacao L.) Terhadap Pertumbuhan Bakteri Methicillin-Resistant Staphylococcus aureus (MRSA)		
No	Tanggal	Arahan Pembimbing/Prodi	Tanda Tangan Pembimbing
1.	26/07/2025	ACC Judul	
2.	28/07/2025	Penelitian terdahulu, kerangka berpikir, kerangka konseptual	
3.	4/08/2025	kerangka berpikir, kerangka konseptual	
4.	6/08/2025	Penelitian terdahulu	
5.	11/08/2025	rapikan isinya	
6.	12/08/2025	ACC Proposal	

Ket. \*)Melampirkan bukti bimbingan jika tanpa tatap muka.

Cat: Halaman berikutnya mulai dari judul kolom, dapat ditambah sesuai kebutuhan.








Palopo, .....

Ketua Program Studi Ilmu .....

  
 NIP/NIDN. 0909108700

## Lampiran 17 Lembar Konsultasi Skripsi

## KONSULTASI DAN MONITORING KARYA TULIS ILMIAH

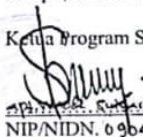
Nama	Intan Azura		
Nomor Induk Mahasiswa	22120101		
Program Studi	Farmasi		
Nama Dosen Pembimbing	1. Apt. Anugrah Umar F. Si, M. Si 2. Dr. Anji Nurrah M. Apt., M. Kes., M. Mfg		
Tanggal Berita Acara Seminar UP			
Judul Karya tulis ilmiah:	Usi Daya Hambat Daun Ekstro (Theobroma cacao L.) Terhadap Pertumbuhan Bakteri methicillin-Resistant Staphylococcus aureus (MRSA)		
No	Tanggal	Arahan Pembimbing/Prodi	Tanda Tangan Pembimbing
1.	18/11/2025	Setiap spesies 7 botolkan, Perbaiki Apas: dan penulisan Supur.	
2.	9/4/2026	Perbaiki tabel penelitian terdahulu	
3.	15/4/2026	Revisikan tabel hasil	
4.	17/4/2026	Perbaiki penulisan Supur	
5.	23/4/2026	Penambahan hasil penelitian Bab I	
6.	24/4/2026	Ganti literatur buku 2015	
7.	27/4/2026	Acc	

Ket: \*) Melampirkan bukti bimbingan jika tanpa tatap muka.






Cat: Halaman berikutnya mulai dari judul kolom, dapat ditambah sesuai kebutuhan.

Palopo, .....

Ketua Program Studi Ilmu .....

  
Anji Nurrah, S. Si, M. Si.....  
NIP/NIDN. 0904108703

## KONSULTASI DAN MONITORING KARYA TULIS ILMIAH

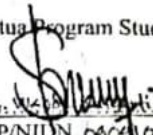
Nama	Intan Azura		
Nomor Induk Mahasiswa	221320101		
Program Studi	Farmasi		
Nama Dosen Pembimbing	1. Apt. Anugrah Umar S.Si., M.Si. 2. Dr. Andi Nabirah M.Apt., M.Kes., M.MP		
Tanggal Berita Acara Seminar UP			
Judul Karya tulis ilmiah:	Uji Daya Hambat Dari Ekstrak Daun kakao ( <i>Theobroma cacao</i> L.) Terhadap Pertumbuhan Bakteri Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)		
No	Tanggal	Arahan Pembimbing/Prodi	Tanda Tangan Pembimbing
	19/11/2025	Koreksi revisi sempro	
	14/04/2026	Ubah bab IV, hapus cara kerja di bab IV	
	21/04/2026	Perbaiki tabel, tabel normalitas dan homogenitas serta dipindahkan ke lampiran	
	22/04/2026	Perbaiki tabel stringing	
	30/04/2026	Acc	

Ket: \*)Melampirkan bukti bimbingan jika tanpa tatap muka.

Cat: Halaman berikutnya mulai dari judul kolom, dapat ditambah sesuai kebutuhan.

Palopo, .....

Ketua Program Studi Ilmu .....

  
NIP/NIDN. 0904108703