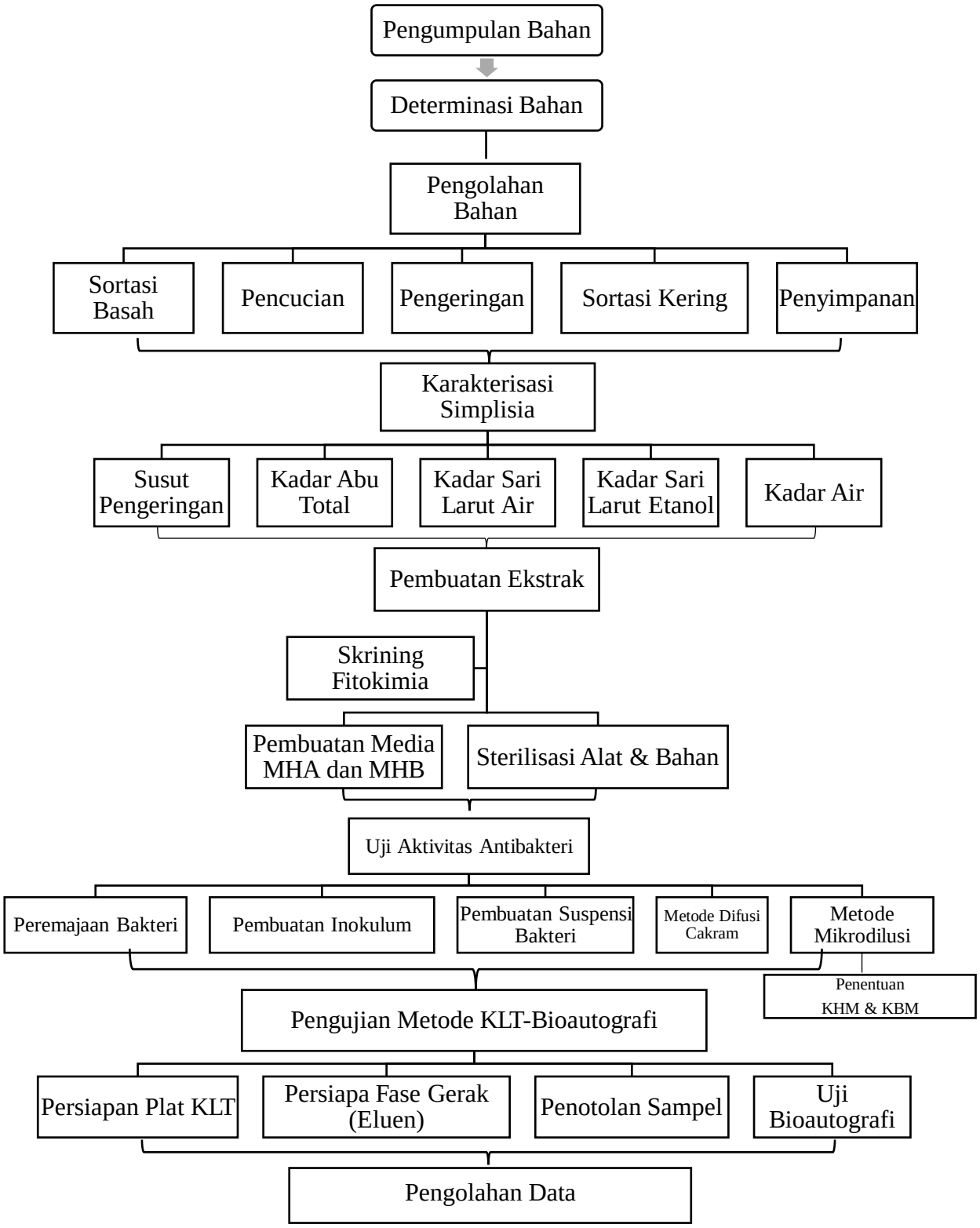
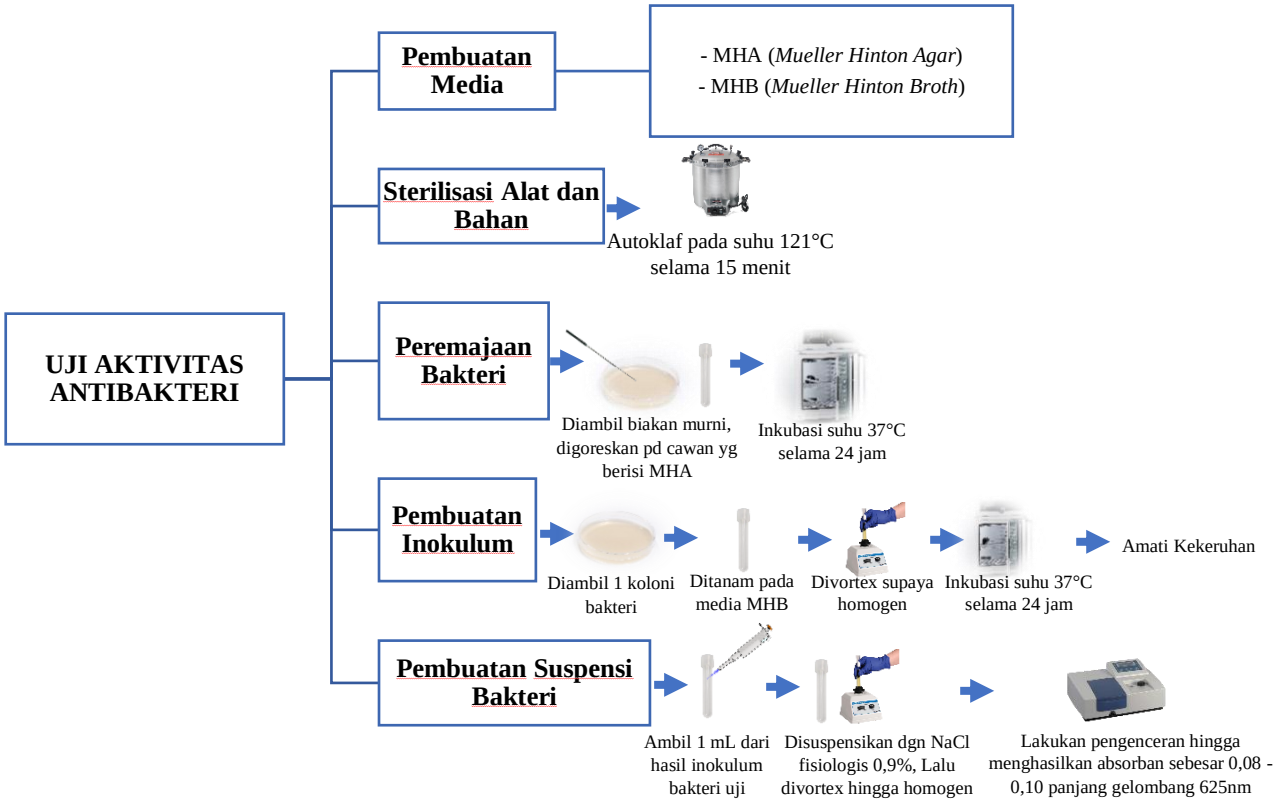
LAMPIRAN

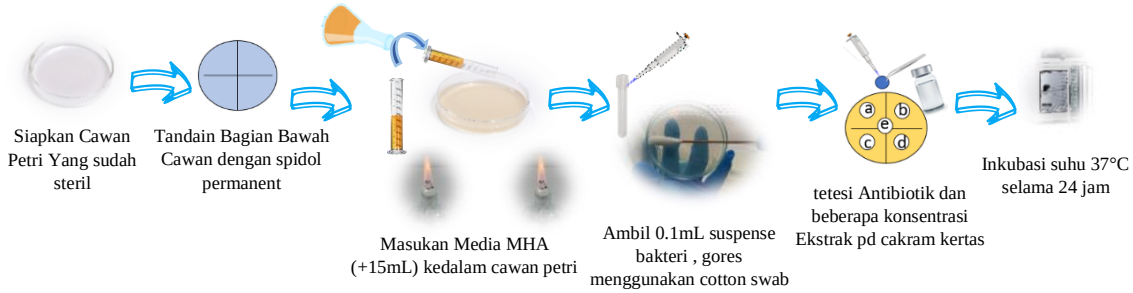
Lampiran 1. Skema Alur Penelitian



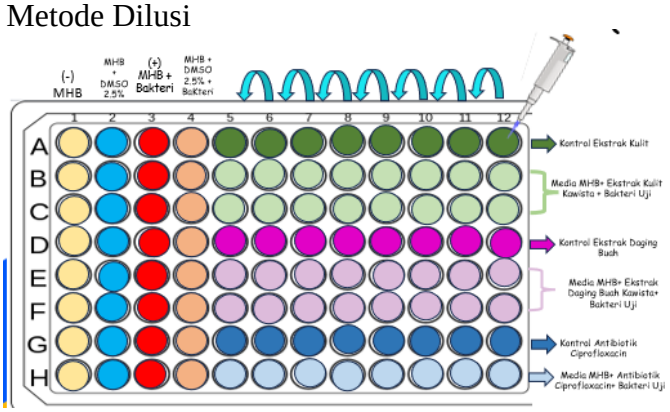
Lampiran 2. Prosedur Uji Aktivitas Antibakteri



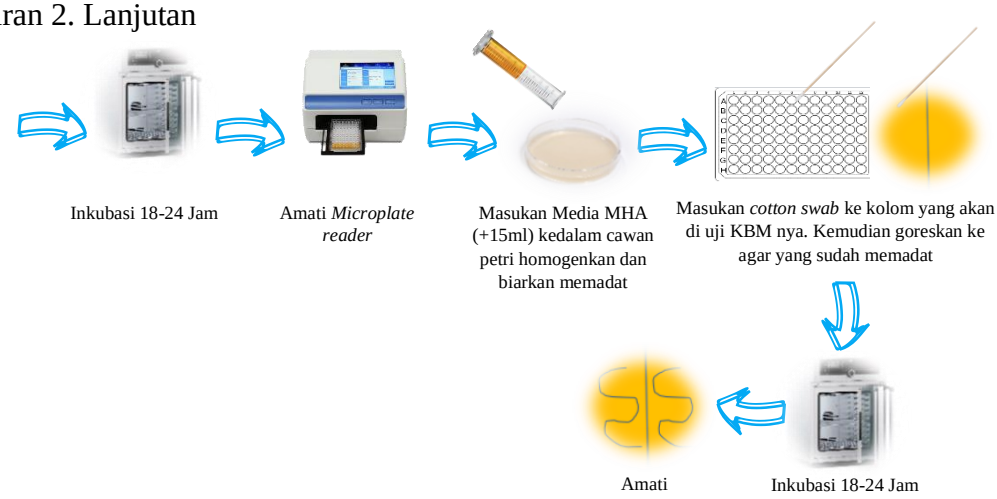
a. Metode Difusi: Cakram Kertas



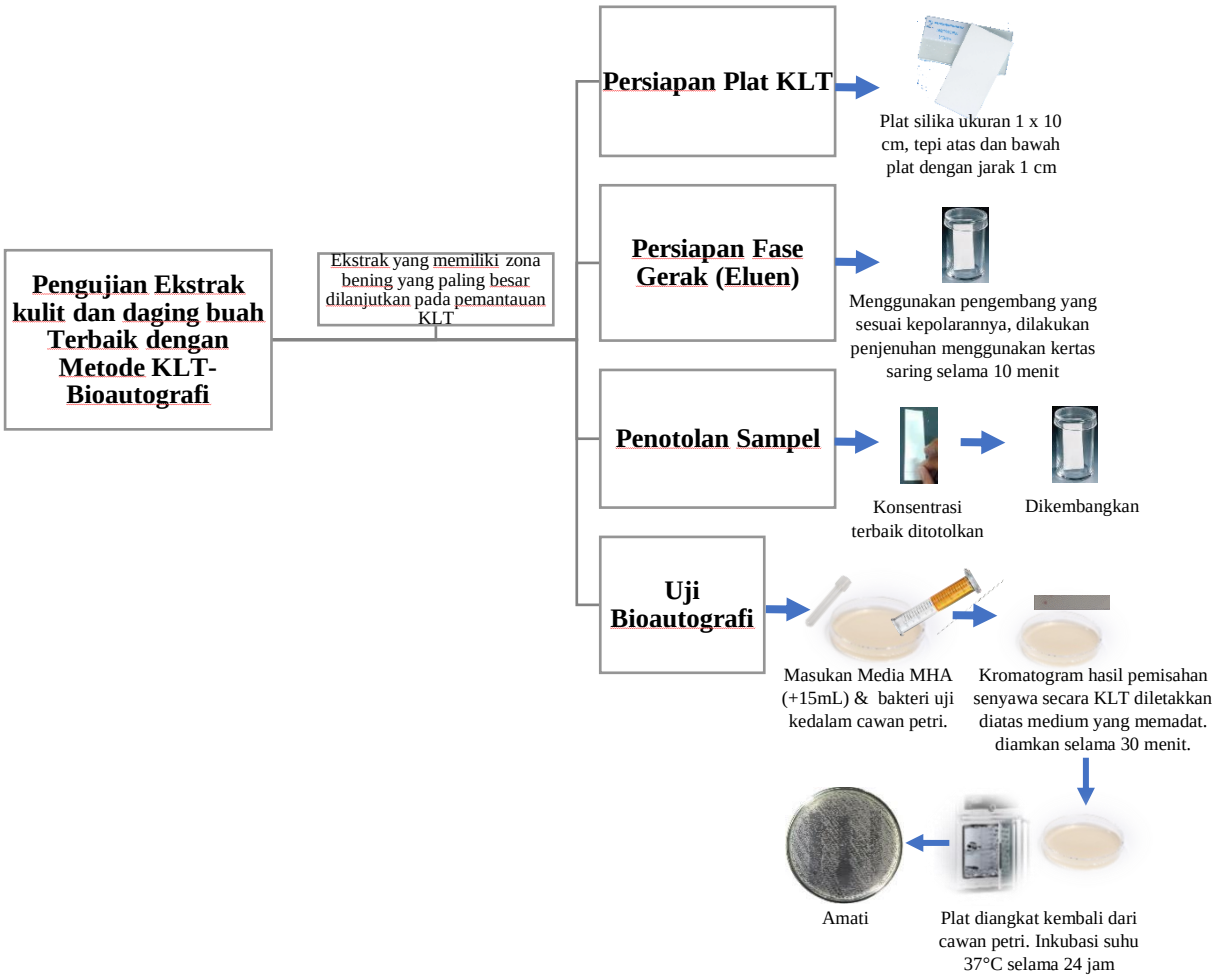
b. Metode Dilusi



Lampiran 2. Lanjutan



c. Uji Bioautografi



Lampiran 3. Determinasi Tanaman

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.46/HB/11/2023.

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

Nama	: Tina Siti Nurjanah
NIM/NIDN	: 221FF04027
Instansi	: Universitas Bhakti Kencana.

Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -

Tanggal Koleksi	: 22 Nopember 2023.
Lokasi	: Bandung.

Hasil Identifikasi

Nama Ilmiah	: ***Limonia acidissima* Groff**
Sinonim	: *Schinus limonia* L.
Nama Lokal	: Kulit Buah Kawista
Suku/Famili	: Rutaceae

Klasifikasi (Hirarki Taksonomi)

Kingdom	Plantae
Divisi	Magnoliophyta
Class	Magnoliopsida
Ordo	Sapindales
Famili	Rutaceae
Genus	*Limonia*
Species	*Limonia acidissima* Groff

Referensi:
Backer, C. A. and Bakkuizen v/d Brink R. C Jr. 1963. Flora of Java. Wolter-Noordhoff NV. Groningen.Cronquist, Arthur. 1981. AnIntegrated 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.

Jatinangor, 23 Nopember 2023.
Identifikator,

LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA-UNPAD

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

Lampiran 4. Surat Keterangan Bakteri

a. Bacillus cereus ATCC 11778

thermo scientific

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: B. cereus ATCC 11778 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)
Gram Reaction: Gram Positive Rod

Passage: 3
Identification Profile: MicroSEQ® or Vitek® 2

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

Signed

Quality Assurance Manager

Lampiran 4. Lanjutan

b. *Escherichia coli* ATCC 25922

thermoscientific

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: E. coli ATCC 25922 PK/5
Lot Number: 629933

Product Number: R4607050
Expiration Date: 2024-08-21
(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 Negative Rod
Identification Profile: MicroSEQ® or Vitek® 2
Appearance: Preserved Gel Matrix suspended in inoculating loop
pH: N/A

Signed

Quality Assurance Manager

Lampiran 4. Lanjutan

c. Shigella sonnei ATCC 25931

thermoscientific

Certificate of Quality

Product Name: S. sonnei Gp D ATCC 25931 PK/5
Lot Number: 860027

Product Number: R4608150
Expiration Date: 2017-11-02
(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.

Biochemical Analysis:
Organism exhibits characteristic biochemical and/or enzymatic 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)
Gram Reaction: Gram Negative Rod
Passage: 3
Biochemical Profile: Vitek 2C GN

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

Signed
Aime Williams
Quality Assurance Supervisor

DOKUMEN EKSTERNAL
Laboratorium Biomedik Divisi Mikrobiologi
Fakultas Kedokteran UNPAD
Jl. Prof Eyckman No. 38, Bandung

Lampiran 5. Ekstraksi

<table>
<tr>
<td> 
Kawista</td>
<td> 
Pemisahan Kulit & Daging Buah Kawista</td>
<td> 
Kulit Kawista</td>
</tr>
<tr>
<td> 
Daging Buah Kawista</td>
<td> 
Pengeringan Kulit & daging Buah Kawista</td>
<td> 
Grinder Kulit & Daging Buah Kawista</td>
</tr>
<tr>
<td> 
Simplisia Kulit & Daging Buah Kawista</td>
<td> 
Metode:
- Refluks: Kulit Buah Kawista
- Soxhlet: Daging Buah Kawistta</td>
<td> 
Penyaringan Kulit hasil Refluks</td>
</tr>
<tr>
<td> 
Rotary evaporator
Pemisahan pelarut dan ekstrak</td>
<td> 
 
 
Pemekatan</td>
<td> 
Ekstrak Kulit dan Daging Buah Kawista</td>
</tr>
</table>

Perhitungan Rendemen Ekstrak:

- Ekstrak Kulit Buah Kawista $= \frac{Bobot\ Ekstrak\ yang\ Dihasilkan}{Bobot\ Awal\ Simplisia}$ X 100%
  $= \frac{104{,}26g}{600g}$ X 100%
  = 17,37%
- Ekstrak Daging Buah Kawista $= \frac{Bobot\ Ekstrak\ yang\ Dihasilkan}{Bobot\ Awal\ Simplisia}$ X 100%
  $= \frac{194{,}18g}{400g}$ X 100%
  = 48,54%

Lampiran 6. Hasil Karakterisasi Simplisia Kulit dan Daging Buah Kawista

Uji	Perhitungan	Hasil
Kadar Abu Total	- Kulit Buah Kawista Berat Simplisia = 2g Berat Krus Kosong = 24,45g Berat krus+abu = 24,49g $= \frac{berat\ abu\ (g)}{berat\ bahan\ awal\ (g)}\ x\ 100\%$ $= \frac{0,04}{2g}$x100% = 2% - Daging Buah Kawista Berat Simplisia = 2g Berat Krus Kosong = 32,81g Berat krus+abu = 32,91g $= \frac{berat\ abu\ (g)}{berat\ bahan\ awal\ (g)}\ x\ 100\%$ $= \frac{0,1}{2g}$x100% = 5%	
Kadar Air	- Kulit Buah Kawista Bobot Sampel= 5g T0= 3,4mL T1= 3,8mL $= \frac{mL}{Bobot\ Sampel}$ X100% $= \frac{0,4mL}{5g}$ X100% = 8% - Daging Buah Kawista Bobot Sampel= 5g T0= 3,4mL T1= 3,7mL $= \frac{mL}{Bobot\ Sampel}$ X100% $= \frac{0,3mL}{5g}$ X100% = 6%	 

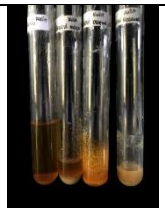
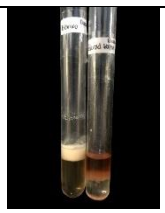
Lampiran 6. Lanjutan

Uji	Perhitungan	Hasil
Kadar Sari Larut Air	- Kulit Buah Kawista Bobot Simplisia = 5g Bobot cawan kosong = 37,90g Bobot cawan+ekstrak = 37,99g $= \frac{cawan\ isi - cawan\ kosong}{bobot\ simplisia}$ x $\frac{vol\ pelarut}{vol\ filtrat}$ x 100% $= \frac{37,99g - 37,90g}{5g}$ x $\frac{100mL}{20mL}$ x 100% $= \frac{0,09g}{5g}$ x $\frac{100mL}{20mL}$ x 100% $= \frac{9}{100}$x100% = 9% - Daging Buah Kawista Bobot Simplisia = 5g Bobot cawan kosong = 124,88g Bobot cawan+ekstrak = 125,27g $= \frac{cawan\ isi - cawan\ kosong}{bobot\ simplisia}$ x $\frac{vol\ pelarut}{vol\ filtrat}$ x 100% $= \frac{125,27g - 124,88g}{5g}$ x $\frac{100mL}{20mL}$ x 100% $= \frac{0,39g}{5g}$ x $\frac{100mL}{20mL}$ x 100% $= \frac{39}{100}$x100% = 39%	   

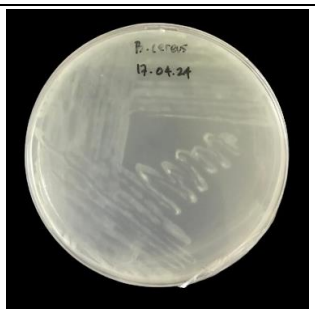
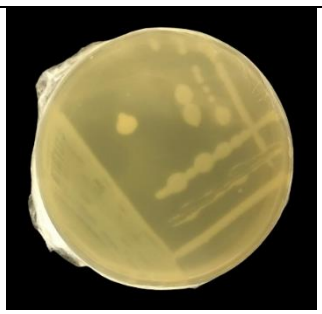
Lampiran 6. Lanjutan

Uji	Perhitungan	Hasil
Kadar Sari Larut Etanol	- Kulit Buah Kawista Bobot Simplisia = 5g Bobot cawan kosong = 33,20g Bobot cawan+ekstrak = 33,30g = $\frac{cawan\ isi-cawan\ kosong}{bobot\ simplisia}$ x $\frac{vol\ pelarut}{vol\ filtrat}$ x 100% = $\frac{33,30g-33,20g}{5g}$ x $\frac{100mL}{20mL}$ x 100% = $\frac{0,10g}{5g}$ x $\frac{100mL}{20mL}$ x 100% = $\frac{10}{100}$x100% = 10% - Daging Buah Kawista Bobot Simplisia = 5g Bobot cawan kosong = 82,60g Bobot cawan+ekstrak = 83,04g = $\frac{cawan\ isi-cawan\ kosong}{bobot\ simplisia}$ x $\frac{vol\ pelarut}{vol\ filtrat}$ x 100% = $\frac{83,04g-82,60g}{5g}$ x $\frac{100mL}{20mL}$ x 100% = $\frac{0,44g}{5g}$ x $\frac{100mL}{20mL}$ x 100% = $\frac{44}{100}$x100% = 44%	   
Susut Pengeringan		 

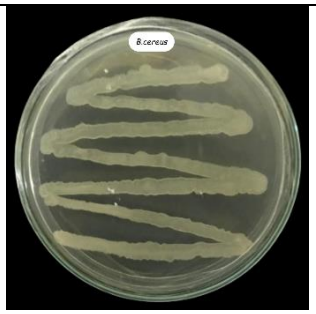
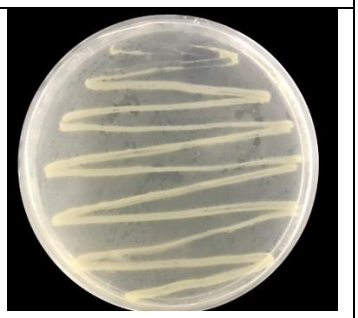
Lampiran 7. Hasil Skrining Fitokimia Kulit dan Daging Buah Kawista

Uji	**Hasil**	
	Kulit Buah Kawista	**Daging Buah Kawista**
Alkaloid		
Flavonoid		
Tanin		
Steroid/Terpenoid		
Saponin		

Lampiran 8. Bakteri Kultur Murni *Bacillus cereus, Escherichia coli* dan *Shigella sonnei*

Bakteri Uji	**Hasil**
Bacillus cereus	
Escherichia coli	
Shigella sonnei	

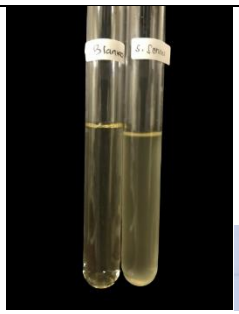
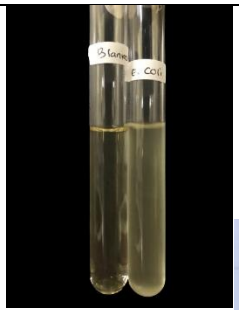
Lampiran 9. Peremajaan Bakteri *Bacillus cereus*, *Escherichia coli* dan *Shigella sonnei*

Bakteri Uji	**Hasil**
Bacillus cereus	
Escherichia coli	
Shigella sonnei	

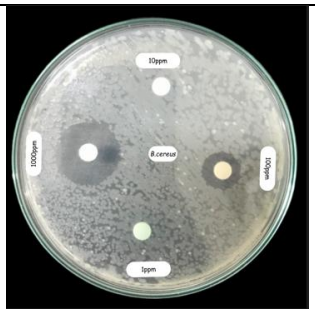
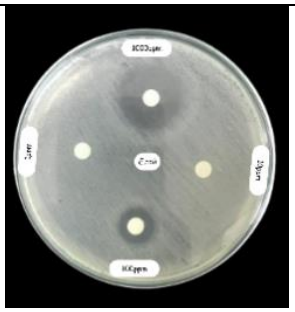
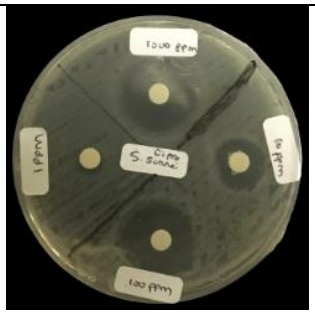
Lampiran 10. Pembuatan Konsentrasi Ekstrak dan pembanding antibiotik Ciprofloxacin

Sampel Uji	**Hasil**
Ekstrak Kulit Buah Kawista	
Ekstrak Daging Buah Kawista	
Ciprofloxacin	

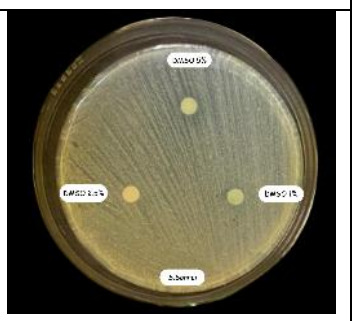
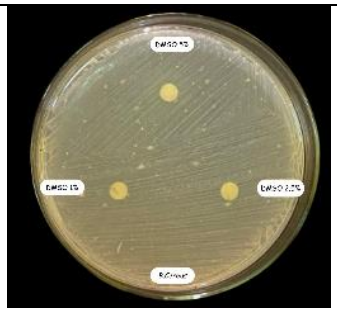
Lampiran 11. Suspensi Bakteri dan Hasil Spektrofotometri UV-Vis

Bakteri Uji	**Hasil**
Bacillus cereus	
Escherichia coli	
Shigella sonnei	

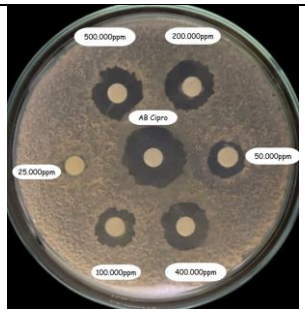
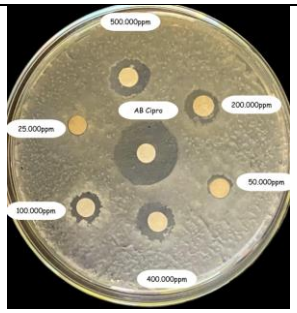
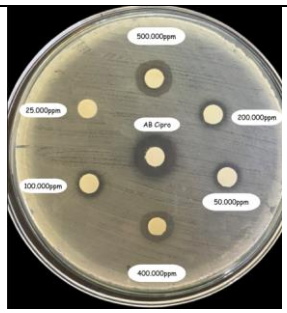
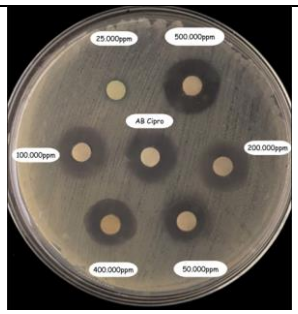
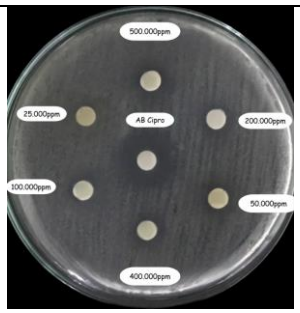
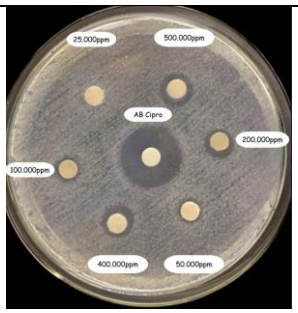
Lampiran 12. Optimasi Antibiotik Ciprofloxacin dan Bakteri Uji

Bakteri Uji	**Hasil**
Bacillus cereus	
Escherichia coli	
Shigella sonnei	

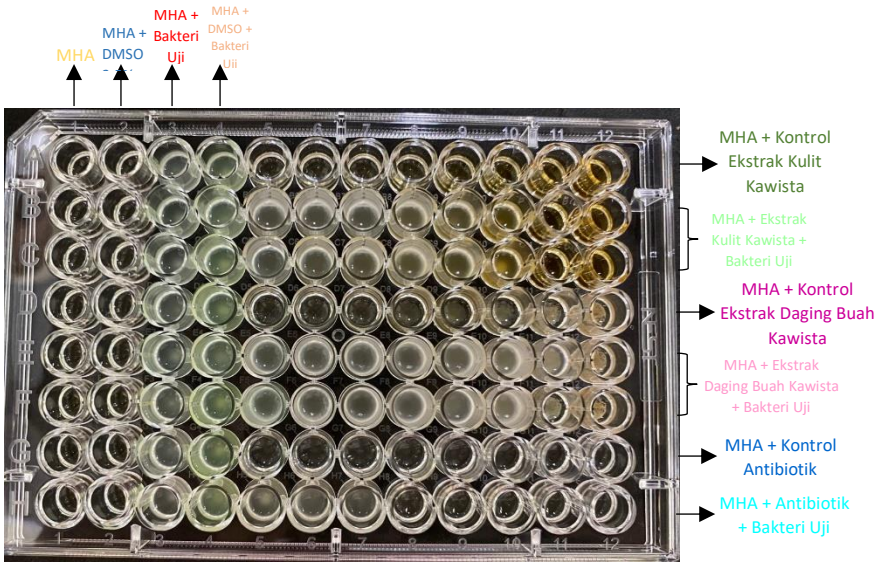
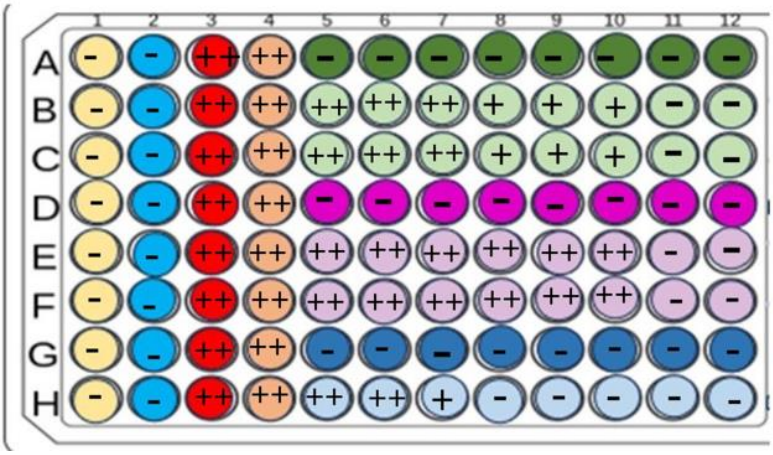
Lampiran 13. Optimasi pelarut DMSO

Bakteri Uji	Hasil
Bacillus cereus	
Escherichia coli	
Shigella sonnei	

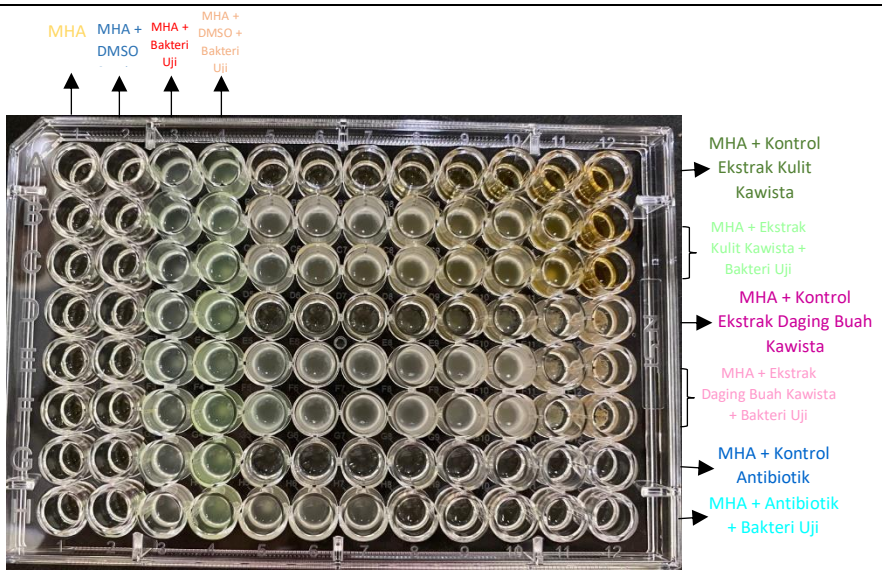
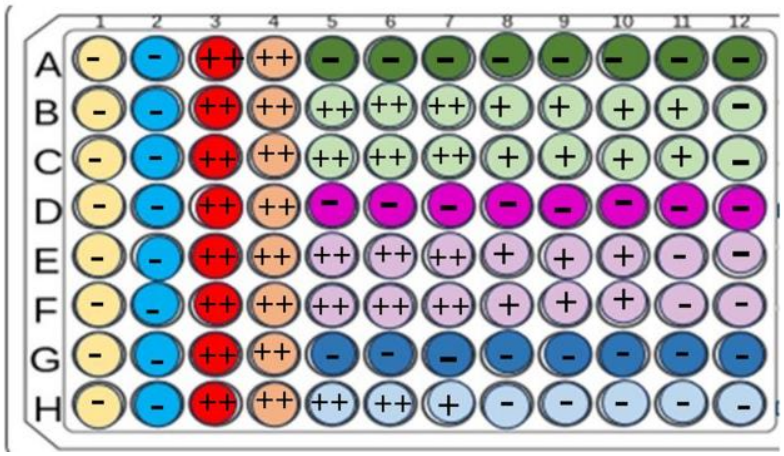
Lampiran 14. Hasil Metode Difusi Cakram Kertas

Bakteri Uji	**Kulit Buah Kawista**	**Daging Buah Kawista**
Bacillus cereus		
Escherichia coli		
Shigella sonnei		

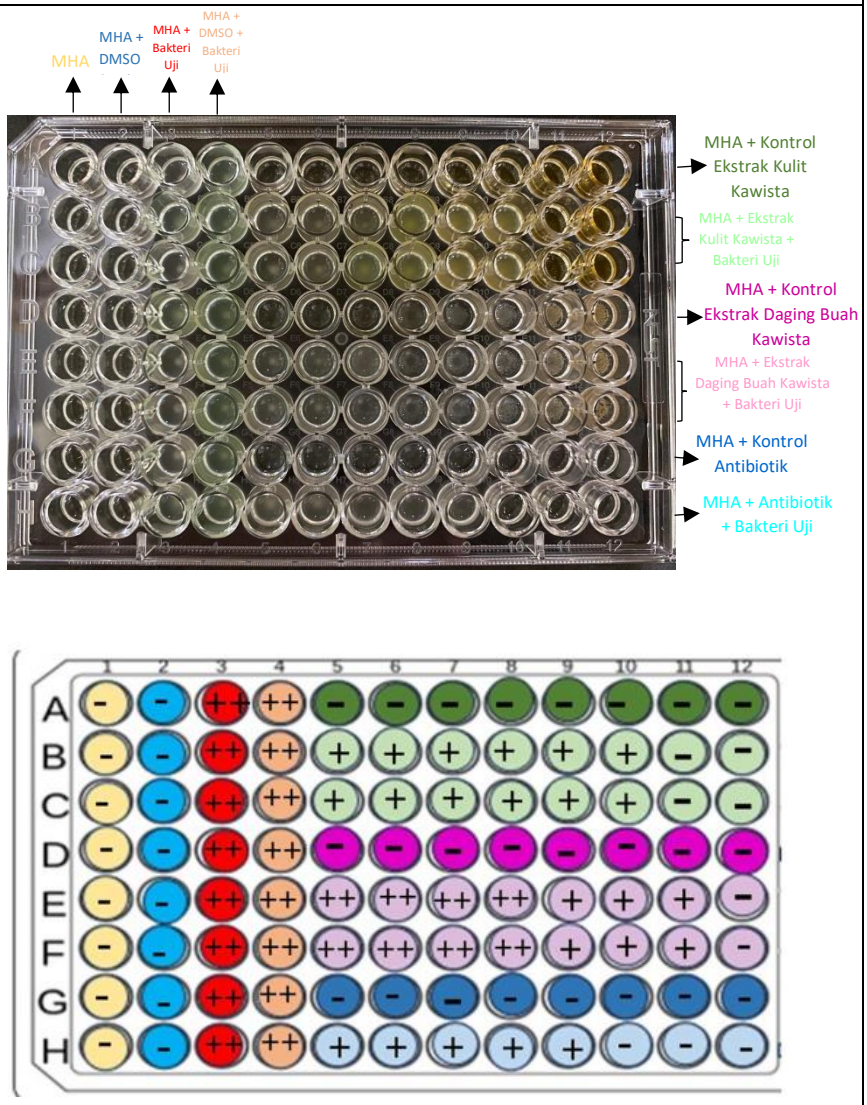
Lampiran 15 Uj Aktivitas Metode Mikrodilusi

Bakteri Uji	Hasil
Bacillus cereus	  Keterangan: (-) : Jernih (+) : Keruh/ Ada endapan (++) : Keruh + Ada endapan

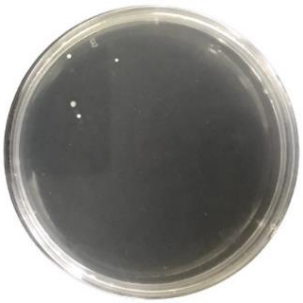
Lampiran 15. Lanjutan

Bakteri Uji	Hasil
Escherichia coli	  Keterangan: (-) : Jernih (+) : Keruh/ Ada endapan (++) : Keruh + Ada endapan

Lampiran 15. Lanjutan

Bakteri Uji	Hasil
Shigella sonnei	 Keterangan: (-) : Jernih (+) : Keruh/ Ada endapan (++) : Keruh + Ada endapan

Lampiran 16. Hasil Konsentrasi Bunuh Minimum (KBM)

Bakteri *Bacillus cereus*		
Pengujian KBM	**Pengujian KBM**	
Kontrol Positif	**Kulit Buah Kawista**	**Daging Buah Kawista**
		
Kontrol Negatif		
		
Jumlah Koloni	4 Koloni	5 Koloni
Bakteri *Escherichia coli*		
Pengujian KBM	**Pengujian KBM**	
Kontrol Positif	**Kulit Buah Kawista**	**Daging Buah Kawista**
		
Kontrol Negatif		
		
Jumlah Koloni	5 Koloni	12 Koloni

Lampiran 16. Lanjutan

Bakteri *Shigella sonnei*		
Pengujian KBM	**Pengujian KBM**	
Kontrol Positif	**Kulit Buah Kawista**	**Daging Buah Kawista**
		
Kontrol Negatif		
		
Jumlah Koloni	0 Koloni	11 Koloni

Perhitungan: % Inhibisi

Dik. 1 kolom wellplate = $5x10^4$ ~ 50.000 koloni

Ekstrak Kulit Buah Kawista

a. 4 koloni bakteri *Bacillus cereus*

$$\% \text{ Inhibisi} = \frac{Jumlah\ koloni\ bakteri\ awal - Jumlah\ koloni\ bakteri\ akhir}{Jumlah\ koloni\ bakteri\ awal} \text{ X } 100\%$$

$$= \frac{50.000-4}{50.000} \text{ X } 100\%$$

$$= \frac{49.996}{50.000} \text{ X } 100\%$$

% Inhibisi = 99.992%

b. 5 koloni bakteri *Escherichia coli*

$$\% \text{ Inhibisi} = \frac{Jumlah\ koloni\ bakteri\ awal - Jumlah\ koloni\ bakteri\ akhir}{Jumlah\ koloni\ bakteri\ awal} \text{ X } 100\%$$

$$= \frac{50.000-5}{50.000} \text{ X } 100\%$$

$$= \frac{49.995}{50.000} \text{ X } 100\%$$

% Inhibisi = 99.99%

Lampiran 16. Lanjutan

Ekstrak Daging Buah kawista

a. 5 koloni bakteri *Bacillus cereus*

$$\% \text{ Inhibisi} = \frac{Jumlah\ koloni\ bakteri\ awal - Jumlah\ koloni\ bakteri\ akhir}{Jumlah\ koloni\ bakteri\ awal} \text{ X } 100\%$$

$$= \frac{50.000-5}{50.000} \text{ X } 100\%$$

$$= \frac{49.995}{50.000} \text{ X } 100\%$$

% Inhibisi = 99.99%

c. 12 koloni bakteri *Escherichia coli*

$$\% \text{ Inhibisi} = \frac{Jumlah\ koloni\ bakteri\ awal - Jumlah\ koloni\ bakteri\ akhir}{Jumlah\ koloni\ bakteri\ awal} \text{ X } 100\%$$

$$= \frac{50.000-12}{50.000} \text{ X } 100\%$$

$$= \frac{49.988}{50.000} \text{ X } 100\%$$

% Inhibisi = 99.976%

d. 11 koloni bakteri *Shigella sonnei*

$$\% \text{ Inhibisi} = \frac{Jumlah\ koloni\ bakteri\ awal - Jumlah\ koloni\ bakteri\ akhir}{Jumlah\ koloni\ bakteri\ awal} \text{ X } 100\%$$

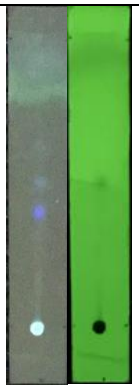
$$= \frac{50.000-11}{50.000} \text{ X } 100\%$$

$$= \frac{49.989}{50.000} \text{ X } 100\%$$

% Inhibisi = 99.978%

Lampiran 17. Hasil Uji KLT-Bioautografi

a. Hasil Optimasi KLT

Toluen: Etil asetat: Asam format (4:5:1)	
Ekstrak Buah Kawista	**Ekstrak Daging Buah Kawista**
	
Sinar UV λ366nm & λ245nm	Sinar UV λ366nm & λ245nm

b. Hasil KLT Penampak Bercak

Toluen: Etil asetat: Asam format (4:5:1)				
Sampel Uji	**Pereaksi Penampak Bercak**			
	Dragendorf (Alkaloid)	**Sitroborat (Flavonoid)**	**$FeCl_3$ (Tanin)**	**H_2SO_4 (Universal)**
Ekstrak Etanol Kulit Buah Kawista				
Ekstrak Etanol Daging Buah Kawista				

Lampiran 18. Hasil Cek Turnitin

Skripsi Tina S Nurjanah

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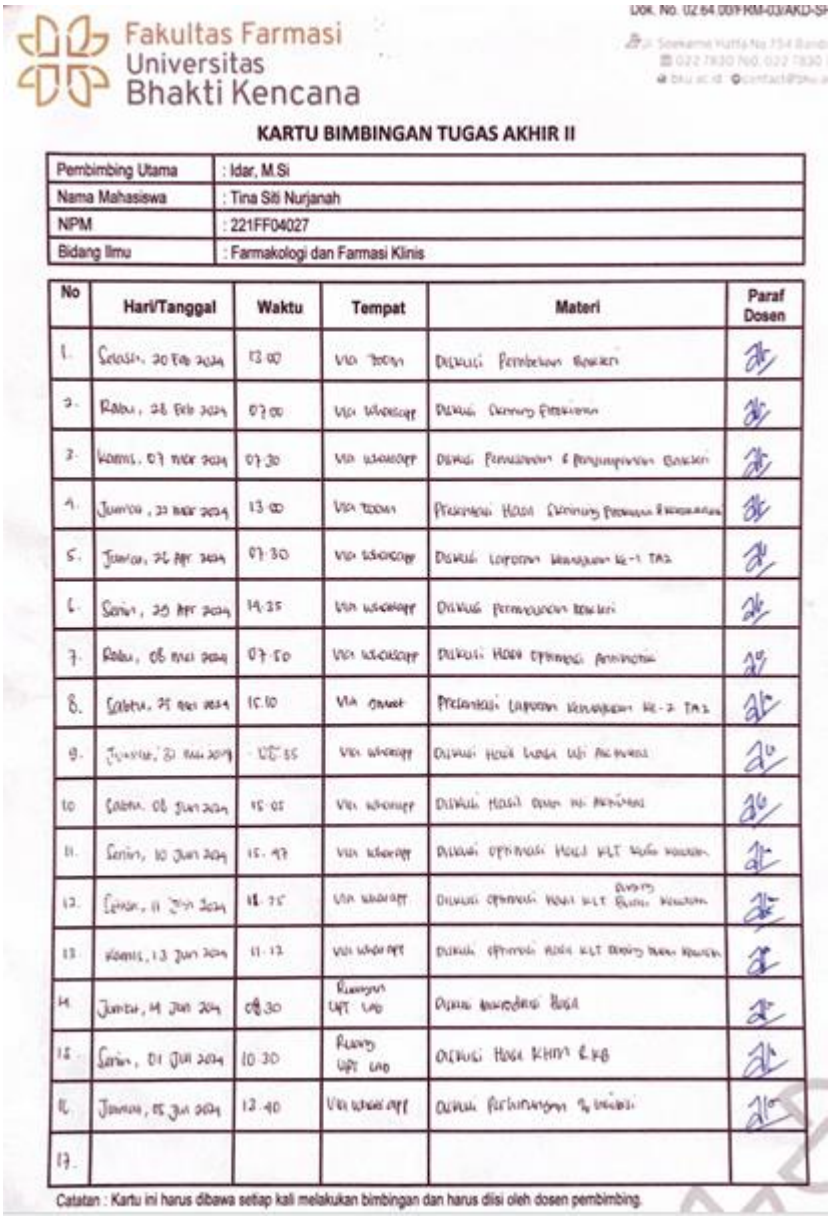
Kartu Bimbingan Pembimbing 1



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Jl. Soekarno Hatta No.754 Bandung
022 7830 760, 022 7830
bku.ac.id contact@bku.a

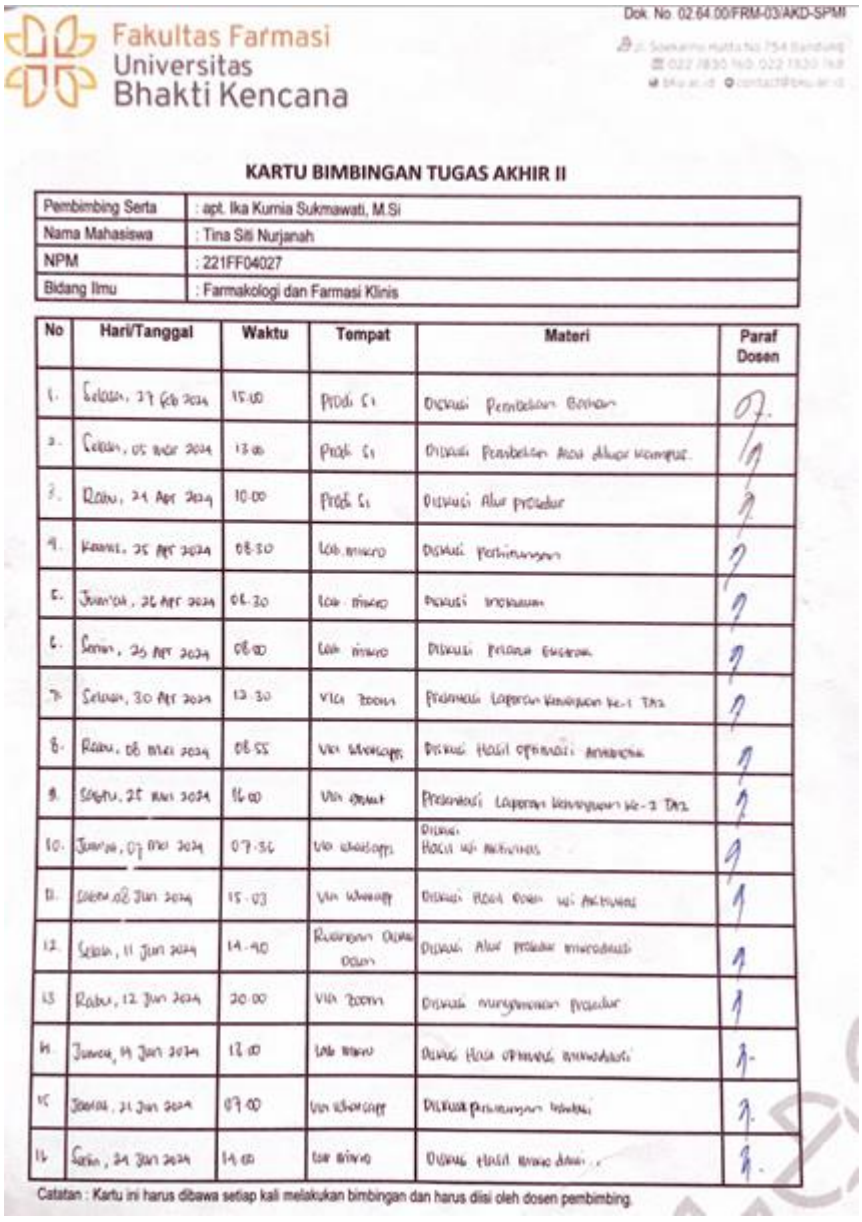
KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Utama	: Idar, M.Si
Nama Mahasiswa	: Tina Siti Nurjanah
NPM	: 221FF04027
Bidang Ilmu	: Farmakologi dan Farmasi Klinis

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Selasa, 20 Feb 2024	13.00	Via Zoom	Diskusi Pembahasan Bakteri	
2.	Rabu, 28 Feb 2024	07.00	Via Whatsapp	Diskusi Seminar Proposal	
3.	Kamis, 07 Mar 2024	07.30	Via Whatsapp	Diskusi Perbaikan & Penyempurnaan Bab I	
4.	Jumat, 22 Mar 2024	13.00	Via Zoom	Presentasi Hasil Seminar Proposal & Perbaikan	
5.	Jumat, 26 Apr 2024	07.30	Via Whatsapp	Diskusi Laporan Kemajuan Ke-1 TA2	
6.	Senin, 29 Apr 2024	14.25	Via Whatsapp	Diskusi Perbaikan Bakteri	
7.	Rabu, 08 Mei 2024	07.50	Via Whatsapp	Diskusi Hasil Optimasi Antibiotik	
8.	Selasa, 28 Mei 2024	10.10	Via Zoom	Presentasi Laporan Kemajuan Ke-2 TA2	
9.	Jumat, 31 Mei 2024	12.55	Via Whatsapp	Diskusi Hasil Uraian Uji Aktivitas	
10	Selasa, 04 Jun 2024	15.05	Via Whatsapp	Diskusi Hasil Optimasi Uji Aktivitas	
11.	Senin, 10 Jun 2024	15.47	Via Whatsapp	Diskusi Optimasi Hasil KLT Kulit Kayu	
12.	Selasa, 11 Jun 2024	18.25	Via Whatsapp	Diskusi Optimasi Hasil KLT Biofarm Kayu	
13	Kamis, 13 Jun 2024	11.12	Via Whatsapp	Diskusi Optimasi Hasil KLT Biofarm Daun Kayu	
14	Jumat, 14 Jun 2024	08.30	Ruangan UPT Lab	Diskusi Kromatografi Kolom	
15	Senin, 01 Jul 2024	10.30	Ruang UPT Lab	Diskusi Hasil KHM & KB	
16	Jumat, 05 Jul 2024	12.40	Via Whatsapp	Diskusi Perbaikan & Revisi	
17.					

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

Kartu Bimbingan Pembimbing 2



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KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Serta	: apt. Ika Kurnia Sukmawati, M.Si
Nama Mahasiswa	: Tina Siti Nurjanah
NPM	: 221FF04027
Bidang Ilmu	: Farmakologi dan Farmasi Klinis

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Selasa, 27 Feb 2024	15.00	Prodi S1	Diskusi Pemilihan Bahan	
2.	Selasa, 05 Mar 2024	13.00	Prodi S1	Diskusi Pembelian Alat Alur Kompre	
3.	Rabu, 24 Apr 2024	10.00	Prodi S1	Diskusi Alur prosedur	
4.	Kamis, 25 Apr 2024	08.30	Lab. mikro	Diskusi Pertanyaan	
5.	Jum'at, 26 Apr 2024	08.30	Lab. mikro	Diskusi metodeu	
6.	Senin, 29 Apr 2024	08.00	Lab mikro	Diskusi Prosedur Evaluasi	
7.	Selasa, 30 Apr 2024	12.30	Via Zoom	Presentasi Laporan Kemajuan ke-1 TA2	
8.	Rabu, 08 Mei 2024	08.55	Via Whatsapp	Diskusi Hasil optimasi Antibiotik	
9.	Selasa, 21 Mei 2024	16.00	Via Zoom	Presentasi Laporan kemajuan ke-2 TA2	
10.	Jum'at, 07 Mei 2024	07.36	Via whatsapp	Diskusi Hasil uji Aktivitas	
11.	Senin, 03 Jun 2024	15.03	Via Whatsapp	Diskusi Hasil Docking uji Aktivitas	
12.	Selasa, 11 Jun 2024	14.40	Ruangan Dosen	Diskusi Alur prosedur mikrobiologi	
13.	Rabu, 12 Jun 2024	20.00	Via Zoom	Diskusi penyempurnaan prosedur	
14.	Jum'at, 14 Jun 2024	12.00	Lab Mikro	Diskusi Hasil optimasi antimikroba	
15.	Jum'at, 21 Jun 2024	07.00	Via whatsapp	Diskusi Perbaikan laporan	
16.	Selasa, 25 Jun 2024	14.00	Lab Mikro	Diskusi Hasil antimikroba	

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

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
17.	Senin, 26 Jul 2024	08.30	Lab mikro	Diskusi Hasil KHM & KBM	
18.	Senin, 01 Jul 2024	08.30	Lab mikro	Diskusi Hasil uji Bioautografi	
19.	Kamis, 11 Jul 2024	13.00	Ruangan Prodi Farmasi	Revisi Skripsi	
20	Jum'at, 12 Jul 2024	10.20	R. Perpustakaan	Revisi Skripsi	

SURAT PERSETUJUAN PUBLIKASI TUGAS AKHIR
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Yang bertanda tangan di bawah ini,

Nama : Idar, M.Si.

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Selaku pembimbing utama dari mahasiswa,

Nama : Tina Siti Nurjanah

NIM : 221FF04027

menyatakan bahwa demi kebaikan perkembangan ilmu pengetahuan, saya menyetujui Skripsi yang telah dibuat oleh mahasiswa tersebut dengan judul:

AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL KULIT DAN DAGING BUAH KAWISTA MUDA (Limonia acidissima Groff) TERHADAP *Bacillus cereus, Escherichia coli* dan *Shigella sonnei*

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Mengetahui,

Bandung, 19 September 2024

Idar, M.Si.

NIDN. 0402028105

TINA.

SITI NURJANAH.

KONTAK

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Jl. Warung Cendol Desa Mariuk

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