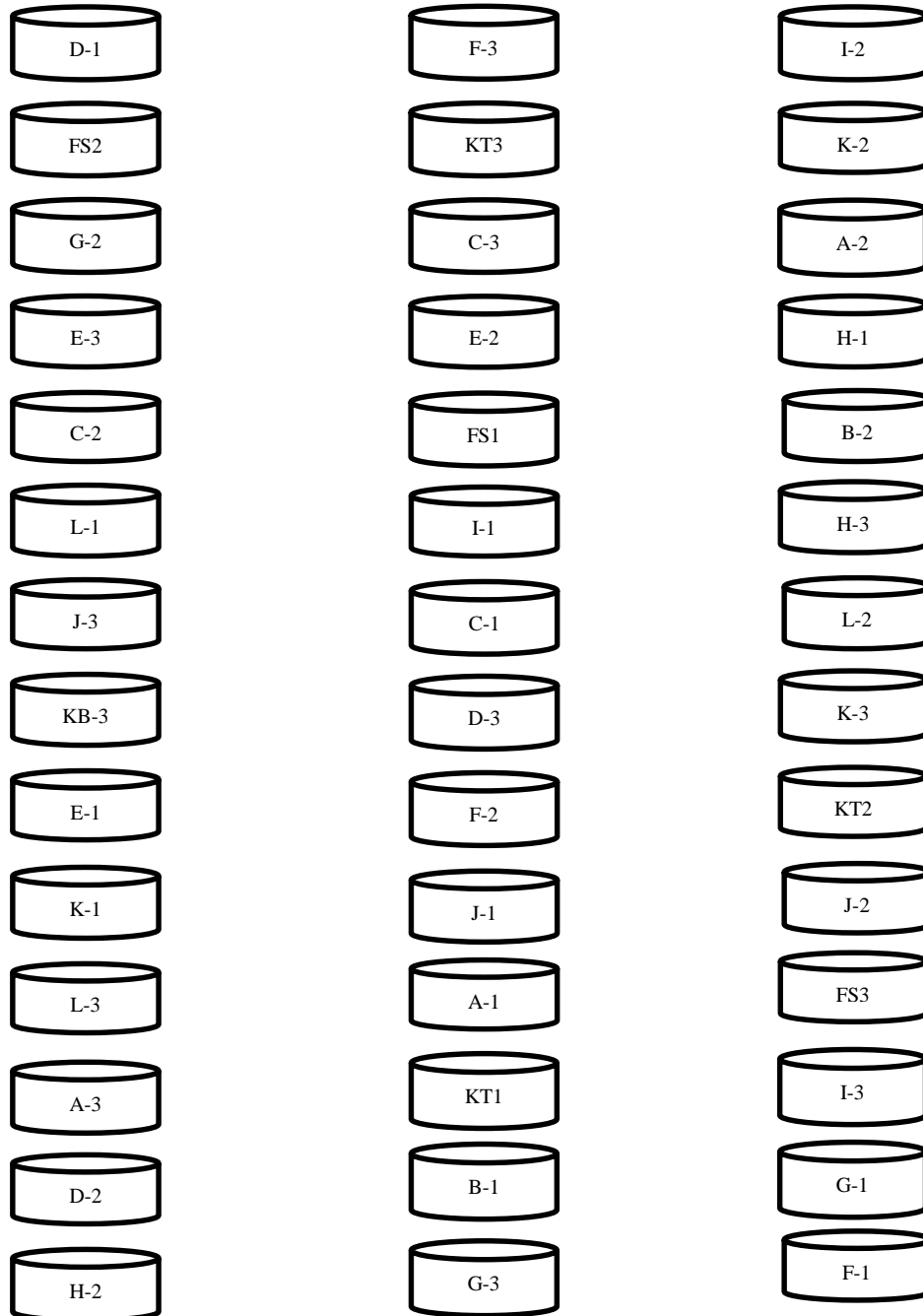


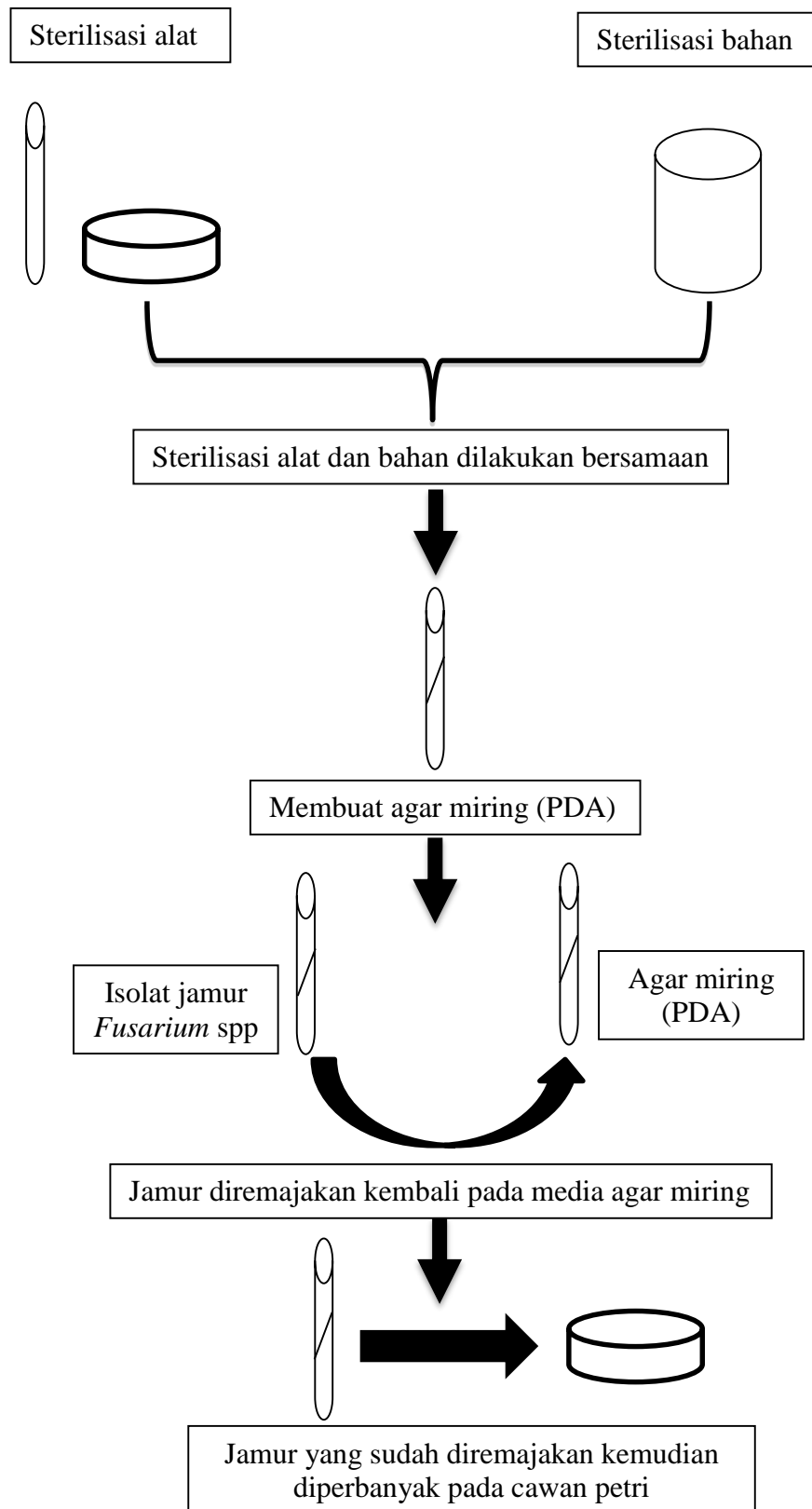
LAMPIRAN

Lampiran 1. *Layout Penelitian*

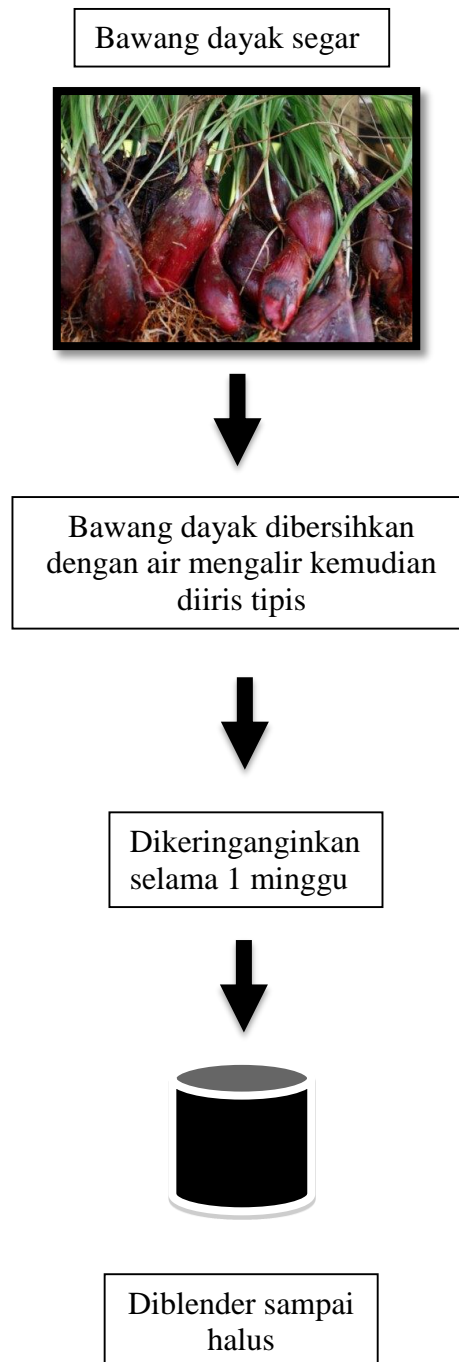


Keterangan :

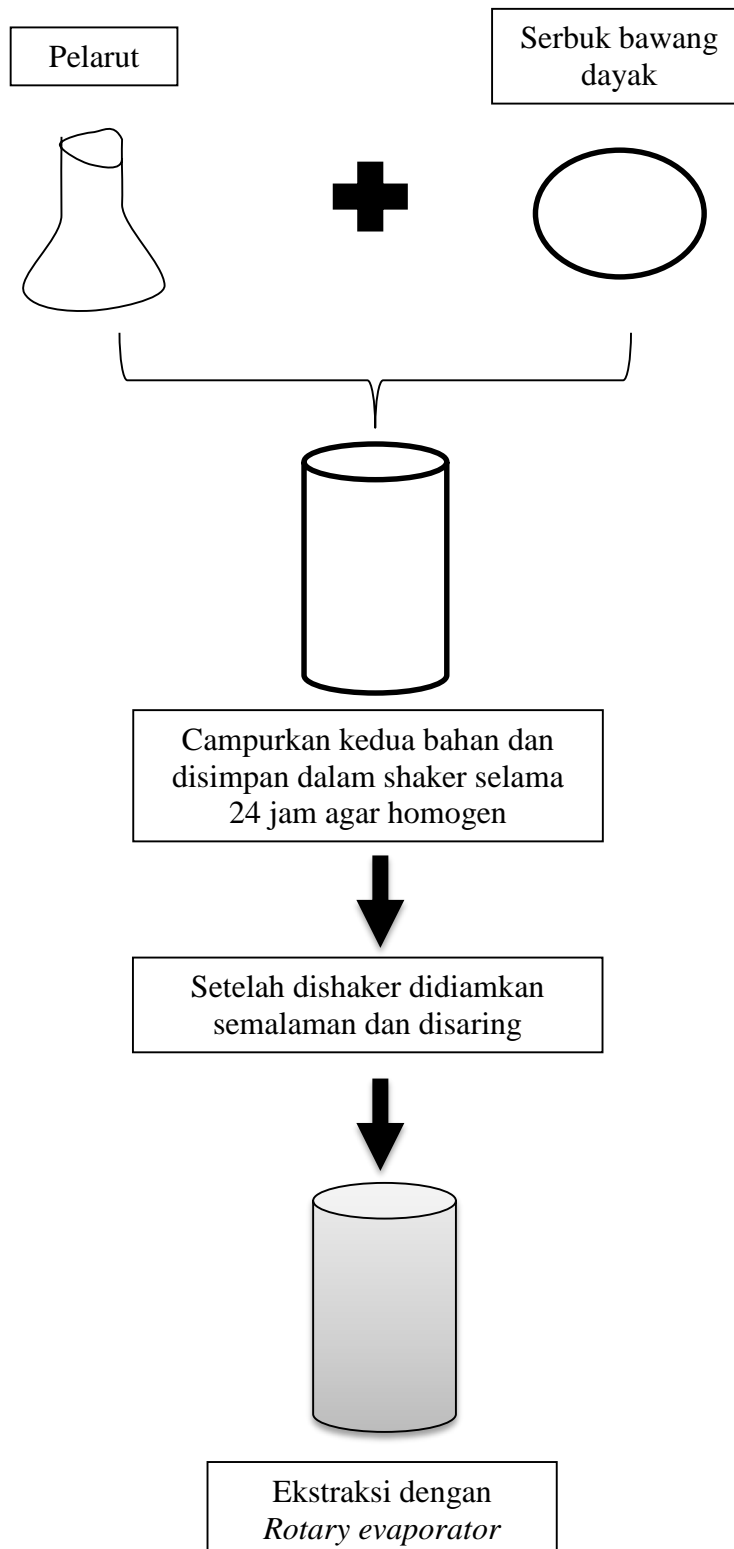
1. A = metanol + ekstrak bawang dayak 20%
2. B = metanol + ekstrak bawang dayak 40%
3. C = metanol + ekstrak bawang dayak 60%
4. D = metanol + ekstrak bawang dayak 80%
5. E = etil asetat + ekstrak bawang dayak 20%
6. F = etil asetat + ekstrak bawang dayak 40%
7. G = etil asetat + ekstrak bawang dayak 60%
8. H = etil asetat + ekstrak bawang dayak 80%
9. I = n heksana + ekstrak bawang dayak 20%
10. J = n heksana + ekstrak bawang dayak 40%
11. K = n heksana + ekstrak bawang dayak 60%
12. L = n heksana + ekstrak bawang dayak 80%
13. Kontrol = Tanpa perlakuan
14. FS = Fungisida Sintetik

Lampiran 2. Skema perbanyakan jamur *Fusarium spp*

Lampiran 3. Skema Pembuatan Simplisia Bawang Dayak

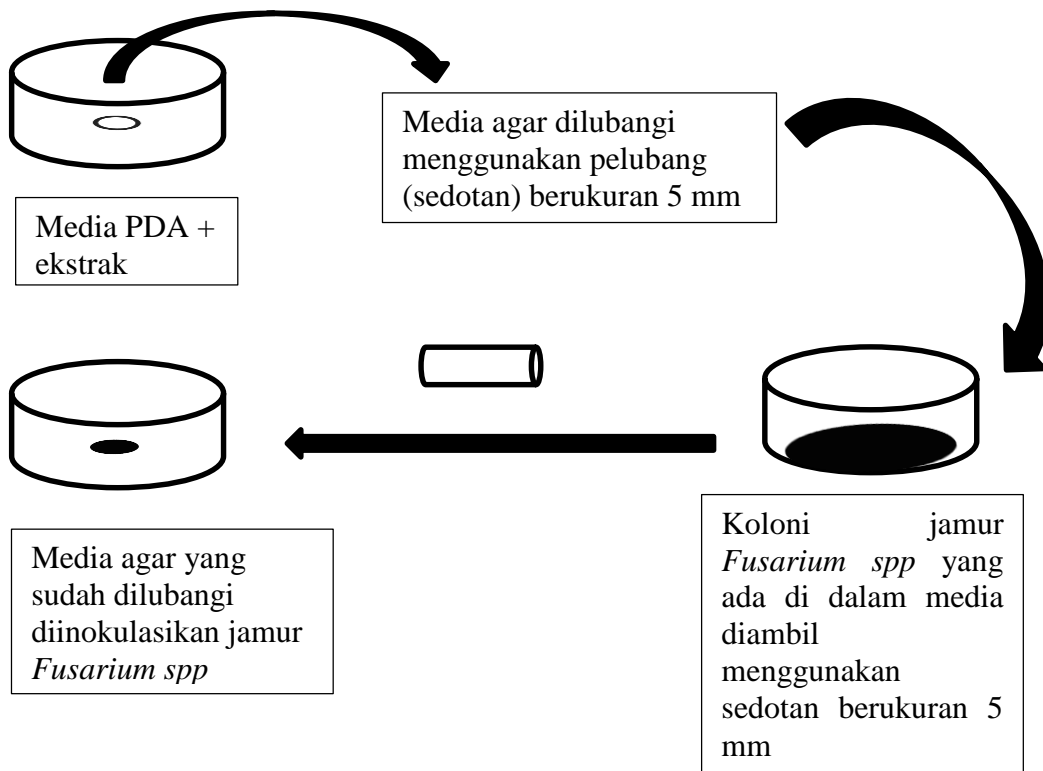


Lampiran 4. Skema Proses Ekstraksi Ekstrak Bawang Dayak

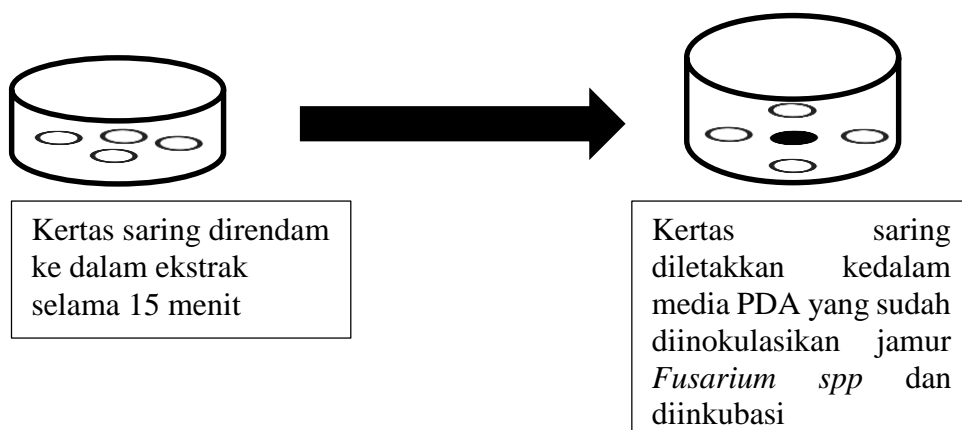


Lampiran 5. Skema Proses Uji Antagonisme Secara *In vitro*

A. Metode Peracunan Media



B. Metode Kertas Cakram (*Cakram disc*)



Lampiran 6. Sidik Ragam Pertumbuhan Koloni Jamur

A. Metode Peracunan Media

a) Diameter H-7

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	56.54642857	4.34972527	23.14	<.0001s
Galat	28	5.26333333	0.18797619		
Total	41	61.80976190			
$R^2 = 0.914846$		KV = 12.03543			

b) Luas Koloni H-7

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	211.0188566	16.2322197	25.74	<.0001s
Galat	28	17.6543651	0.6305130		
Total	41	228.6732217			
$R^2 = 0.922797$		KV = 21.94298			

c) Persentase Penghambatan H-7

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	19412.32181	1493.25552	14.47	<.0001s
Galat	28	2888.68199	103.16721		
Total	41	22301.00380			
$R^2 = 0.870469$		KV = 26.48114			

d) Berat Basah

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	12.77549762	0.98273059	4.84	0.0002s
Galat	28	5.68860000	0.20316429		
Total	41	18.46409762			
$R^2 = 0,691910$		KV = 21.26359			

e) Berat Kering

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	0.01734524	0.00133425	4.52	0.0004s
Galat	28	0.00826667	0.00029524		
Total	41	0.02561190			
$R^2 = 0.677233$		KV = 29.94460			

f) Kerapatan spora

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	2.39434524	0.18418040	2.03	0.0570ns
Galat	28	2.54166667	0.09077381		
Total	41	4.93601190			
$R^2 = 0.485077$		KV = 10.41153			

B. Metode Kertas Cakram

a) Diameter H-7

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	56.54642857	4.34972527	23.32	<.0001s
Galat	28	5.223333333	0.18654762		
Total	41	61.76976190			
$R^2 = 0.915439$	KV	= 11.98961			

b) Luas Koloni H-7

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	138.1592530	10.6276348	2.71	0.0132s
Galat	28	109.8500109	3.9232147		
Total	41	248.0092639			
$R^2 = 0.557073$	KV	= 10.17611			

c) Zona Hambat

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	0.10966667	0.00843590	3.39	0.0033s
Galat	28	0.069733333	0.00249048		
Total	41	0.17940000			
$R^2 = 0.611297$	KV	= 3.724720			

d) Berat Basah

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	12.88671429	0.99128571	4.76	0.0003s
Galat	28	5.825733333	0.20806190		
Total	41	18.71244762			
$R^2 = 0.688671$	KV	= 21.77022			

e) Berat Kering

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	0.02317381	0.00178260	2.49	0.0211s
Galat	28	0.02006667	0.00071667		
Total	41	0.04324048			
$R^2 = 0.535929$	KV	= 29.94460			

f) Kerapatan Spora

Sumber	db	JK	KT	F hitung	Prob > F
Model	13	1.11904762	0.08608059	0.90	0.5599ns
Galat	28	2.66666667	0.09523810		
Total	41	3.78571429			
$R^2 = 0.295597$	KV	= 9.392263			

Lampiran 7. Hasil Uji Kontras

A. Metode Peracunan Media

1. Diameter Koloni

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	56.54642857	4.34972527	23.14	<.0001 s
Perlakuan	13	56.54642857	4.34972527	23.14	<.0001 s
ABCD vs EFGH	1	0.22041667	0.22041667	1.17	0.2881 ns
ABCD vs IJKL	1	0.20166667	0.20166667	1.07	0.3092 ns
EFGH vs IJKL	1	0.84375000	0.84375000	4.49	0.0431 s
ABCDEFGHijkl vs N	1	12.66880342	12.66880342	67.40	<.0001 s
Galat	28	5.26333333	0.18797619		
Total	41	61.80976190			
$R^2 = 0.914846$	KV	= 12.03543			

2. Luas Koloni

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	211.0188566	16.2322197	25.74	<.0001 s
Perlakuan	13	211.0188566	16.2322197	25.74	<.0001 s
ABCD vs EFGH	1	0.68512604	0.68512604	1.09	0.3061 ns
ABCD vs IJKL	1	0.23825319	0.23825319	0.38	0.5437 ns
EFGH vs IJKL	1	0.11533600	0.11533600	0.18	0.6721 ns
ABCDEFGHijkl vs N	1	53.71643513	53.71643513	85.19	<.0001 s
Galat	28	17.6543651	0.6305130		
Total	41	228.6732217			
$R^2 = 0.922797$	KV	= 21.94298			

3. Persentase Penghambatan

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	19412.32181	1493.25552	14.47	<.0001 s
Perlakuan	13	19412.32181	1493.25552	14.47	<.0001 s
ABCD vs EFGH	1	109.180281	109.180281	1.06	0.3124 ns
ABCD vs IJKL	1	200.204008	200.204008	1.94	0.1746 ns
EFGH vs IJKL	1	605.075547	605.075547	5.86	0.0222 s
ABCDEFGHijkl vs N	1	3353.186344	3353.186344	32.50	<.0001 s
Galat	28	2888.68199	103.16721		
Total	41	22301.00380			
$R^2 = 0.870469$	KV	= 26.48114			

4. Berat Basah

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	12.77549762	0.98273059	4.84	0.0002 s
Perlakuan	13	12.77549762	0.98273059	4.84	0.0002 s
ABCD vs EFGH	1	0.36015000	0.36015000	1.77	0.1938 ns
ABCD vs IJKL	1	0.00350417	0.00350417	0.02	0.8965 ns
EFGH vs IJKL	1	0.43470417	0.43470417	2.14	0.1547 ns
ABCDEFGHijkl vs N	1	1.89115919	1.89115919	9.31	0.0049 s
Galat	28	5.68860000	0.20316429		
Total	41	18.46409762			
$R^2 = 0.691910$	KV	= 21.26359			

5. Berat Kering

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	0.01706667	0.00131282	5.87	<.0001 s
Perlakuan	13	0.01706667	0.00131282	5.87	<.0001 s
ABCD vs EFGH	1	0.00060000	0.00060000	2.68	0.1128 ns
ABCD vs IJKL	1	0.00000000	0.00000000	0.00	1.0000 ns
EFGH vs IJKL	1	0.00060000	0.00060000	2.68	0.1128 ns
ABCDEFGHijkl vs N	1	0.00161731	0.00161731	7.23	0.0120 s
Galat	28	0.00626667	0.00022381		
Total	41	0.02333333			
$R^2 = 0.731429$	KV	= 26.40047			

6. Kerapatan Spora

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	759.893649	58.453358	1.91	0.0733 ns
Perlakuan	13	759.8936488	58.4533576	1.91	0.0733 ns
ABCD vs EFGH	1	29.2616541	29.2616541	0.96	0.3361 ns
ABCD vs IJKL	1	141.3370369	141.3370369	4.63	0.0403 s
EFGH vs IJKL	1	299.2183705	299.2183705	9.79	0.0041 s
ABCDEFGHijkl vs N	1	113.8231989	113.8231989	3.73	0.0638 ns
Galat	28	855.461066	30.552181		
Total	41	1615.354715			
$R^2 = 0.470419$	KV	= 10.41153			

B. Metode Kertas Cakram

1. Diameter Koloni

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	56.54642857	4.34972527	23.32	<.0001 s
Perlakuan	13	56.54642857	4.34972527	23.32	<.0001 s
ABCD vs EFGH	1	0.22041667	0.22041667	1.18	0.2863 ns
ABCD vs IJKL	1	0.20166667	0.20166667	1.08	0.3074 ns
EFGH vs IJKL	1	0.84375000	0.84375000	4.52	0.0424 s
ABCDEFGHijkl vs N	1	12.66880342	12.66880342	67.91	<.0001 s
Galat	28	5.22333333	0.18654762		
Total	41	61.76976190			
$R^2 = 0.915439$	KV	= 11.98961			

2. Luas Koloni

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	2760.024382	212.309568	2.56	0.0181 s
Perlakuan	13	2760.024382	212.309568	2.56	0.0181 s
ABCD vs EFGH	1	23.7687815	23.7687815	0.29	0.5967 ns
ABCD vs IJKL	1	295.9816216	295.9816216	3.57	0.0693 ns
EFGH vs IJKL	1	487.5016774	487.5016774	5.88	0.0221 s
ABCDEFGHijkl vs N	1	486.1039201	486.103920	5.86	0.0222 s
Galat	28	2323.075895	82.966996		
Total	41	5083.100277			
$R^2 = 0.542981$	KV	= 10.17611			

3. Zona Hambat

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	94.6485621	7.2806586	3.31	0.0039 s
Perlakuan	13	94.64856211	7.28065862	3.31	0.0039 s
ABCD vs EFGH	1	3.12578502	3.12578502	1.42	0.2433 ns
ABCD vs IJKL	1	0.83343393	0.83343393	0.38	0.5432 ns
EFGH vs IJKL	1	7.18730526	7.18730526	3.27	0.0814 ns
ABCDEFGHijkl vs N	1	16.51722619	16.51722619	7.51	0.0106 s
Galat	28	61.5997203	2.1999900		
Total	41	156.2482825			
$R^2 = 0.605757$	KV	= 3.724720			

4. Berat Basah

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	12.88671429	0.99128571	4.76	0.0003 s
Perlakuan	13	12.88671429	0.99128571	4.76	0.0003 s
ABCD vs EFGH	1	0.11070417	0.11070417	0.53	0.4718 ns
ABCD vs IJKL	1	1.83706667	1.83706667	8.83	0.0060 s
EFGH vs IJKL	1	2.84970417	2.84970417	13.70	0.0009 s
ABCDEFGHijkl vs N	1	2.37369423	2.37369423	11.41	0.0022 s
Galat	28	5.82573333	0.20806190		
Total	41	18.71244762			
$R^2 = 0.688671$	KV	= 21.77022			

5. Berat Kering

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	21.59900778	1.66146214	2.48	0.0214 s
Perlakuan	13	21.59900778	1.66146214	2.48	0.0214 s
ABCD vs EFGH	1	0.00260711	0.00260711	0.00	0.9507 ns
ABCD vs IJKL	1	2.52003166	2.52003166	3.76	0.0626 ns
EFGH vs IJKL	1	2.68474979	2.68474979	4.01	0.0551 ns
ABCDEFGHijkl vs N	1	3.25801462	3.25801462	4.86	0.0358 s
Galat	28	18.75536233	0.66983437		
Total	41	40.35437011			
$R^2 = 0.535233$	KV	= 2.080030			

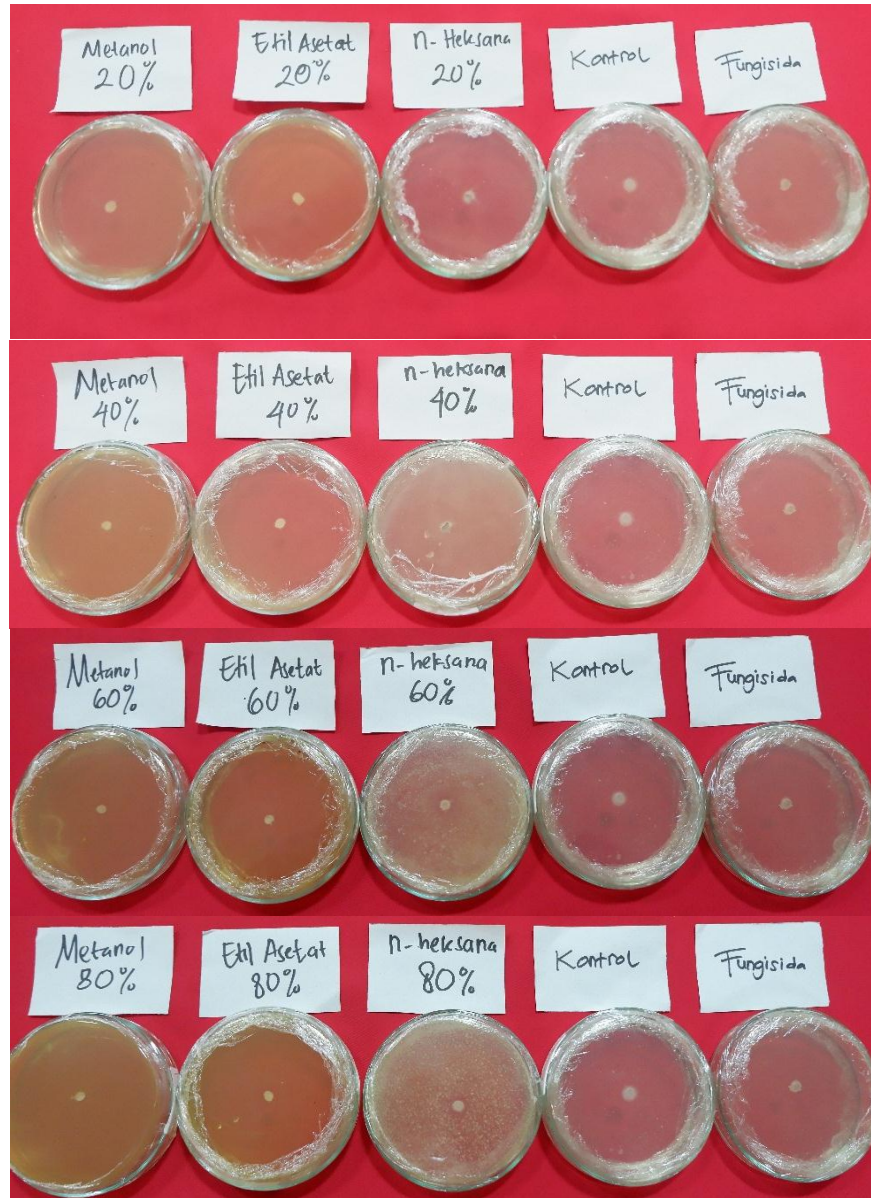
6. Kerapatan Spora

Sumber	db	JK	KT	F hitung	Prob> F
Model	13	310.752468	23.904036	0.87	0.5925 ns
Perlakuan	13	310.7524683	23.9040360	0.87	0.5925 ns
ABCD vs EFGH	1	84.22781491	84.22781491	3.06	0.0913 ns
ABCD vs IJKL	1	53.69405346	53.69405346	1.95	0.1736 ns
EFGH vs IJKL	1	3.42231006	3.42231006	0.12	0.7271 ns
ABCDEFGHijkl vs N	1	10.95950570	10.95950570	0.40	0.5333 ns
Galat	28	771.262323	27.545083		
Total	41	1082.014791			
$R^2 = 0.287198$	KV	= 9.392263			

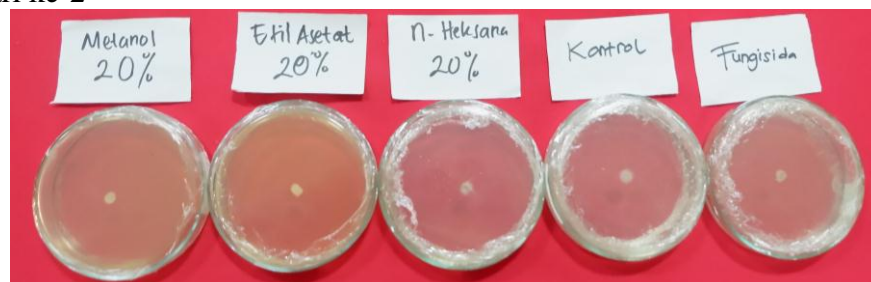
Lampiran 8. Dokumentasi pertumbuhan koloni jamur *Fusarium spp*

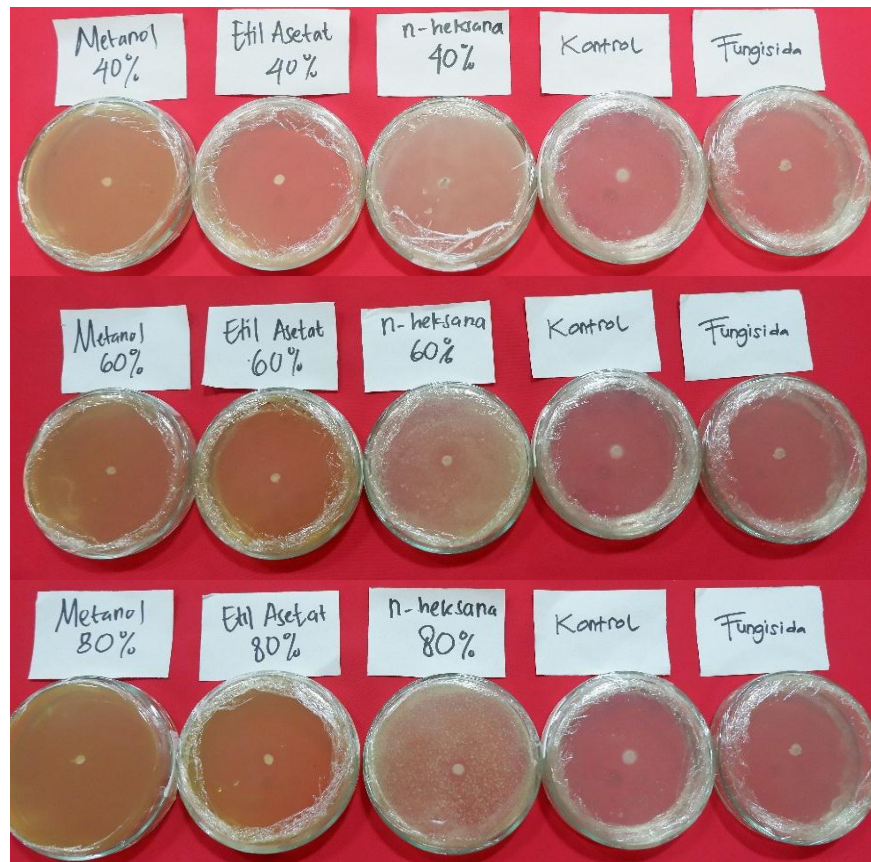
A. Metode Peracunan Media

1. Hari ke-1

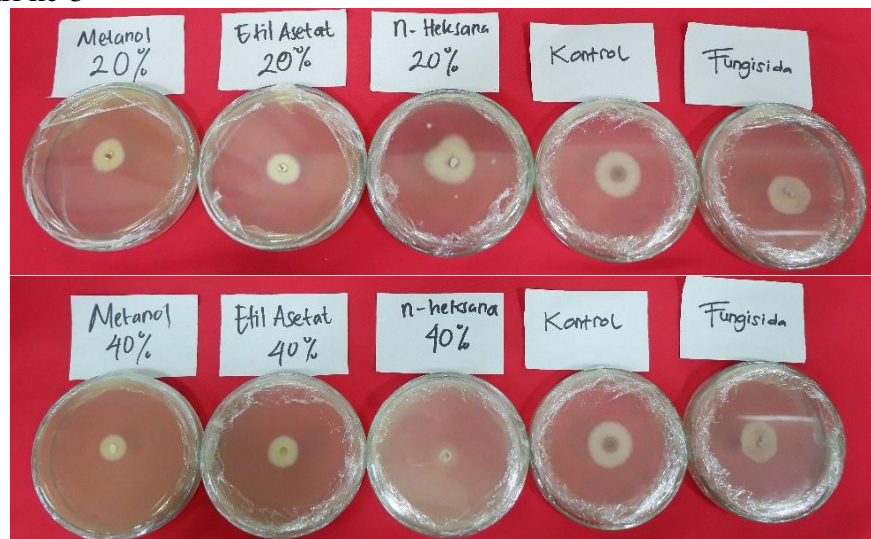


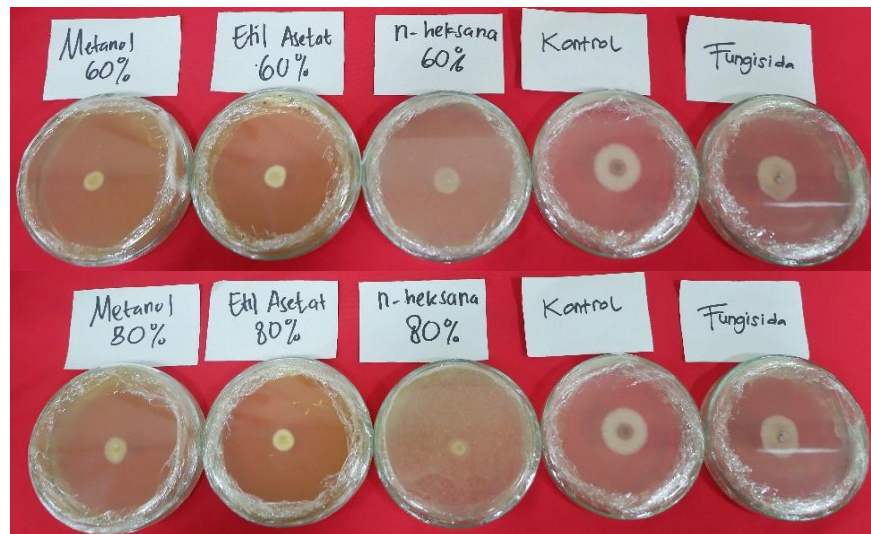
2. Hari ke-2



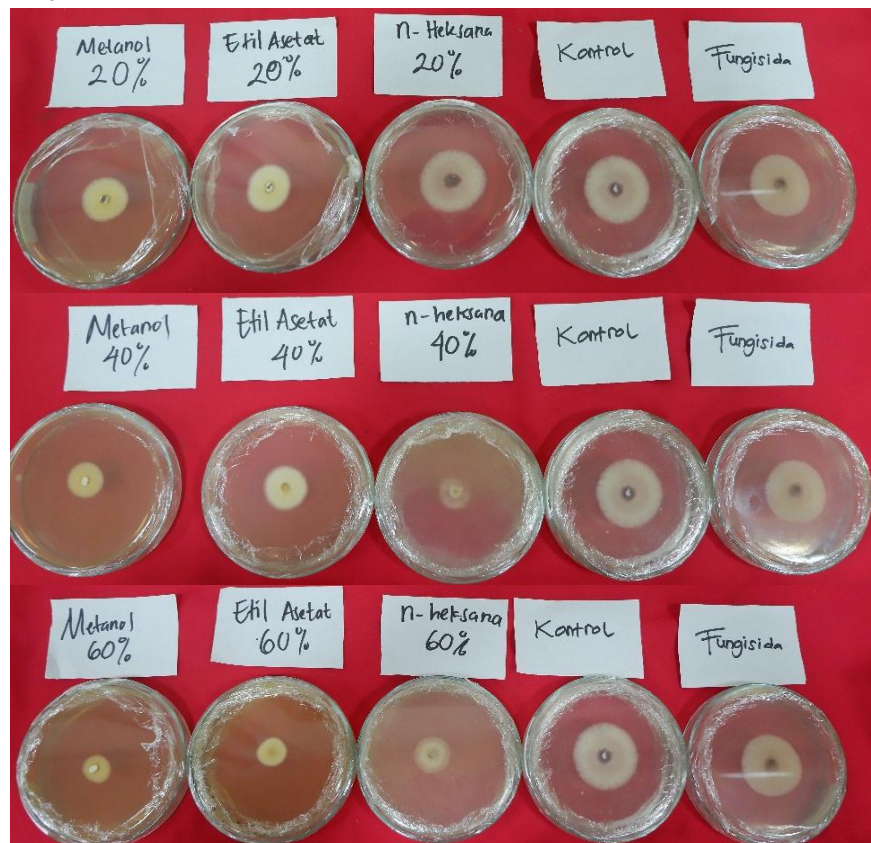


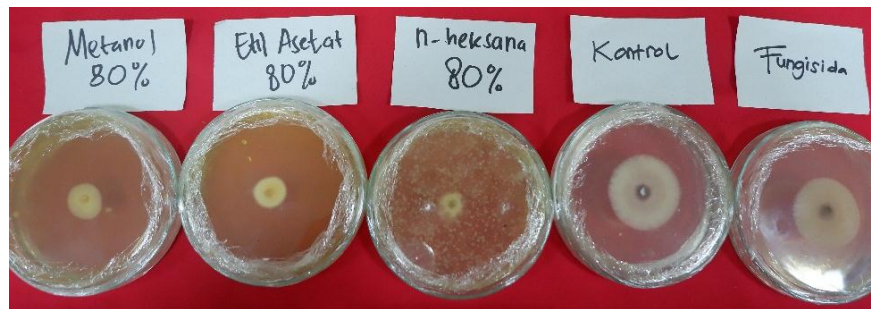
3. Hari ke-3



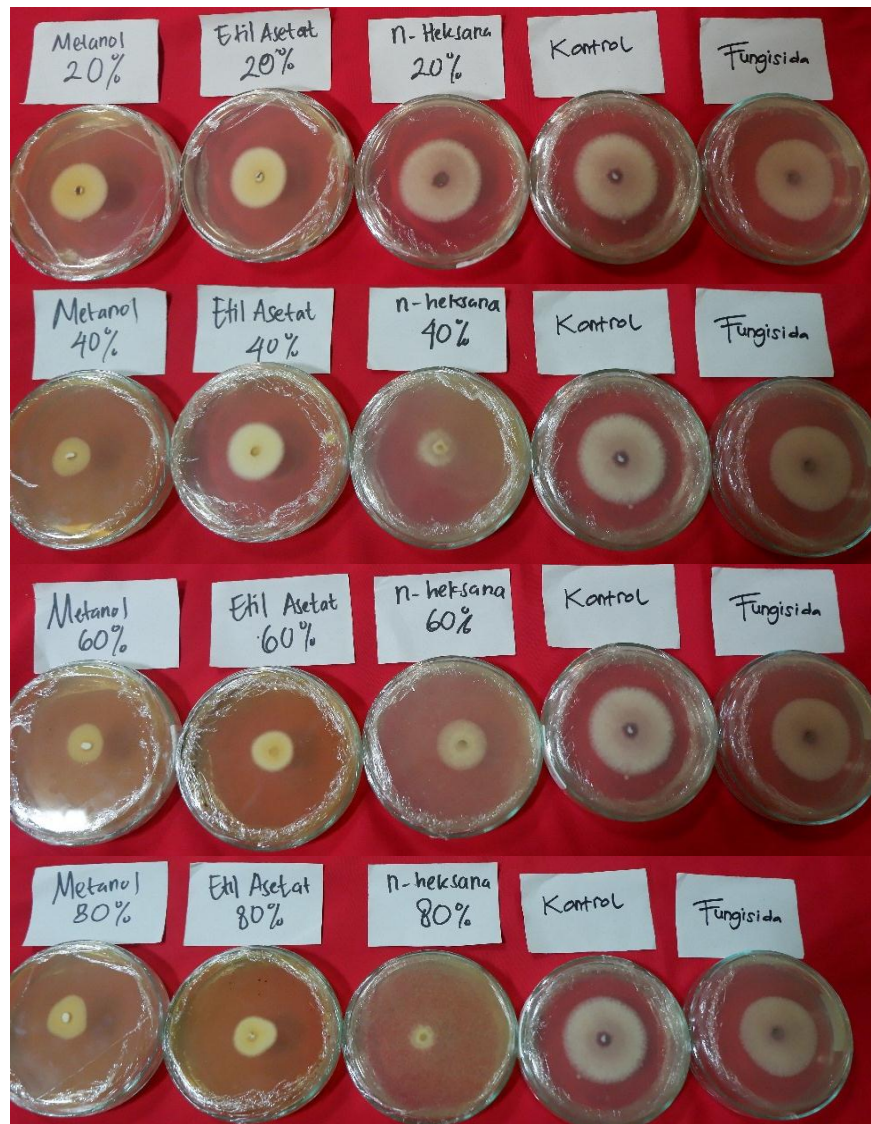


4. Hari ke-4

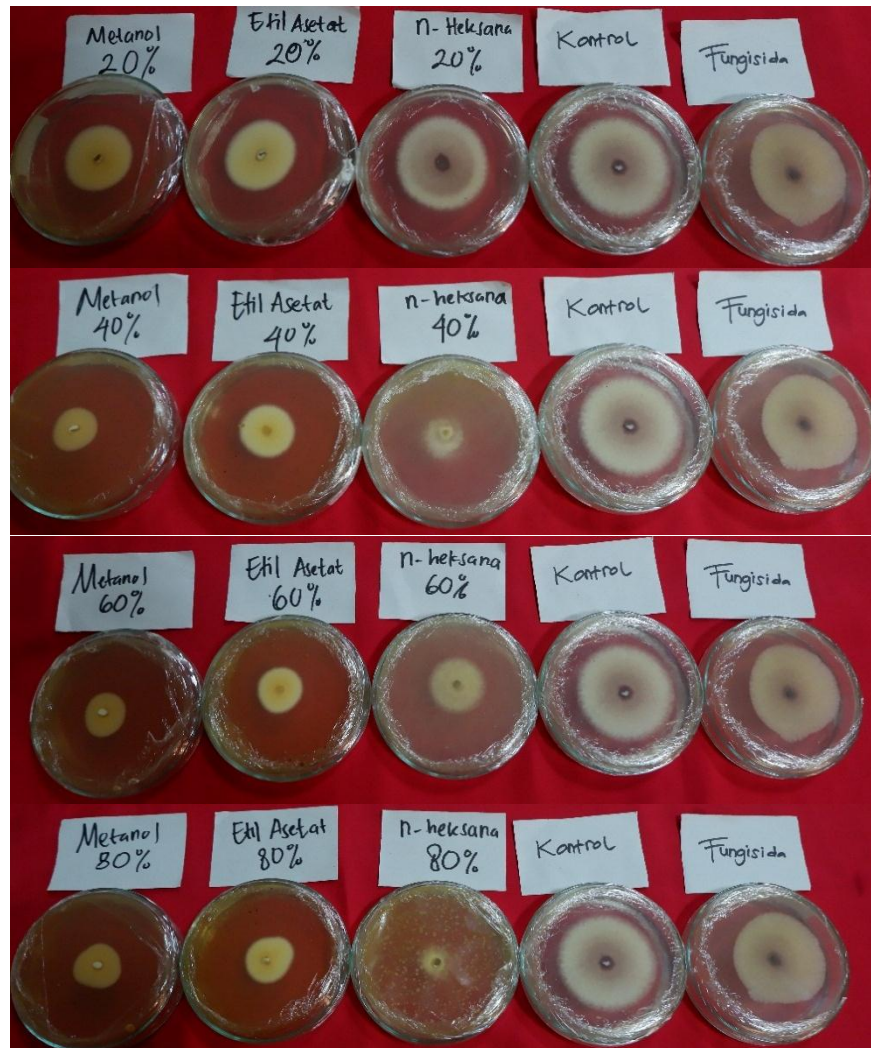




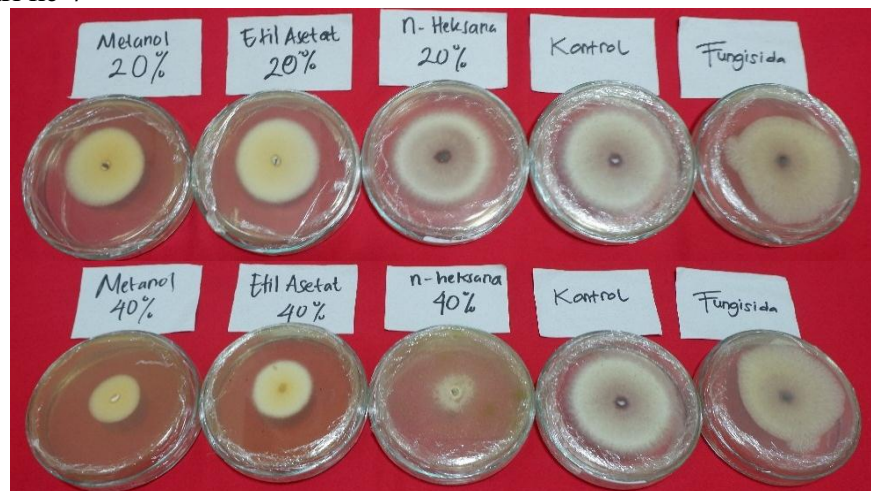
5. Hari ke-5

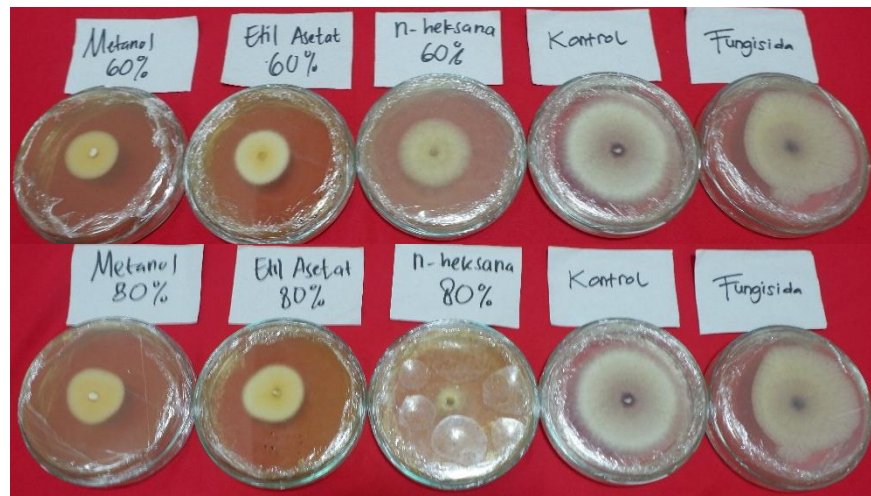


6. Hari ke-6



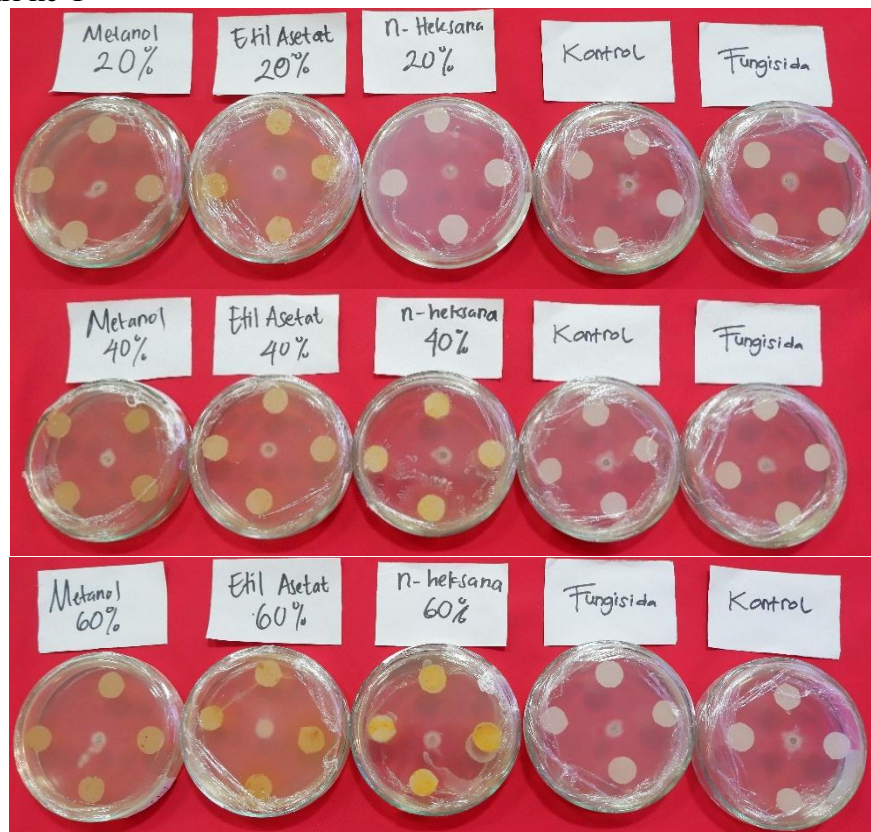
7. Hari ke-7

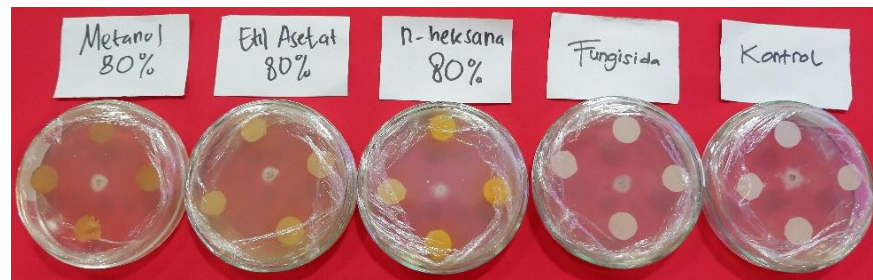




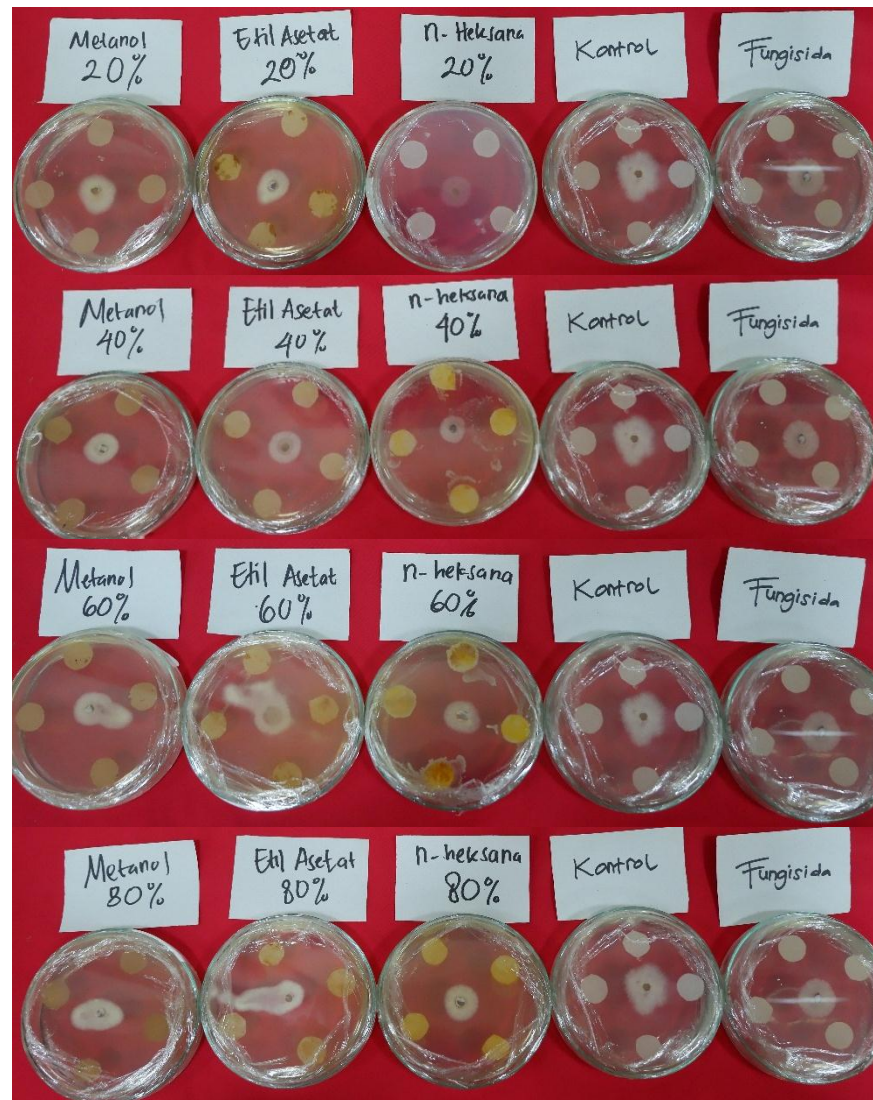
B. Media Kertas Cakram

1. Hari ke-1

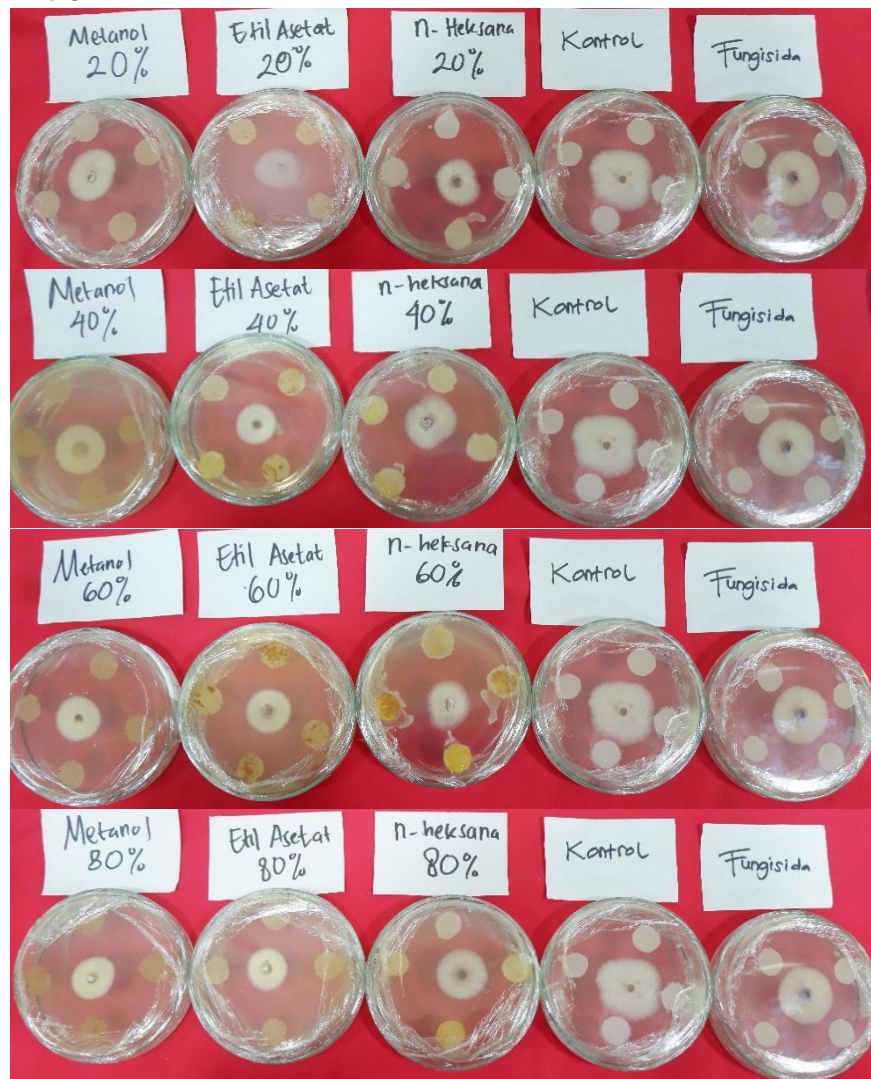




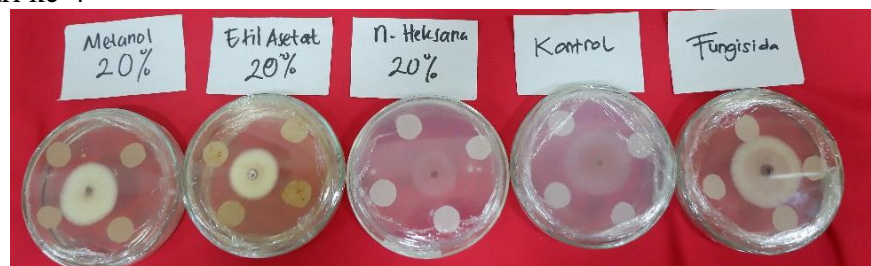
2. Hari ke-2

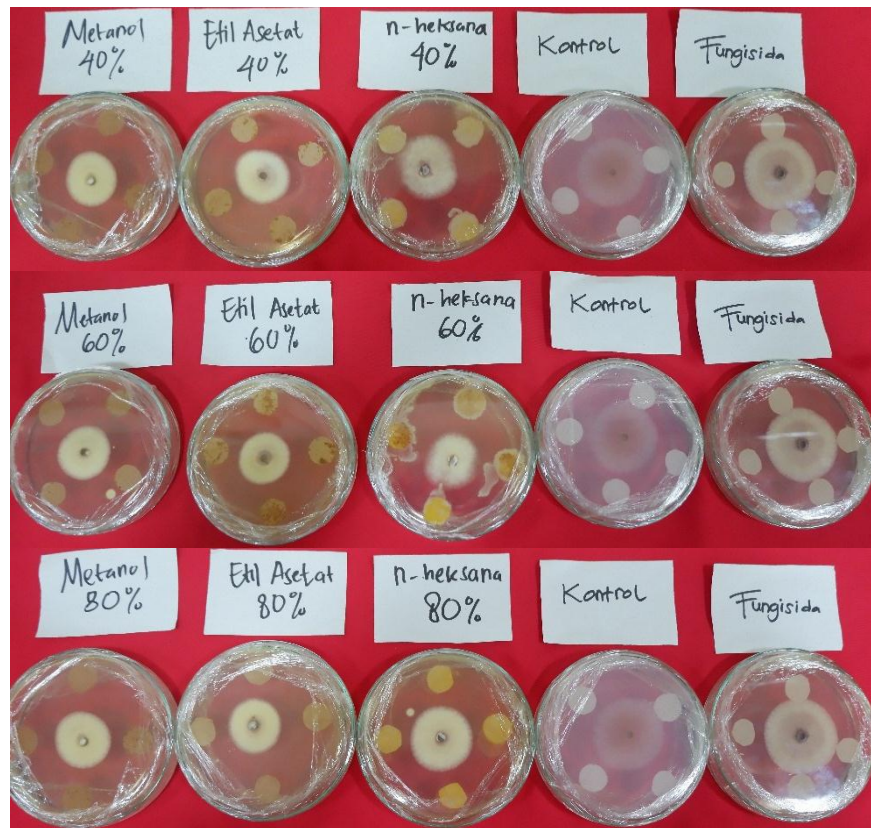


3. Hari ke-3

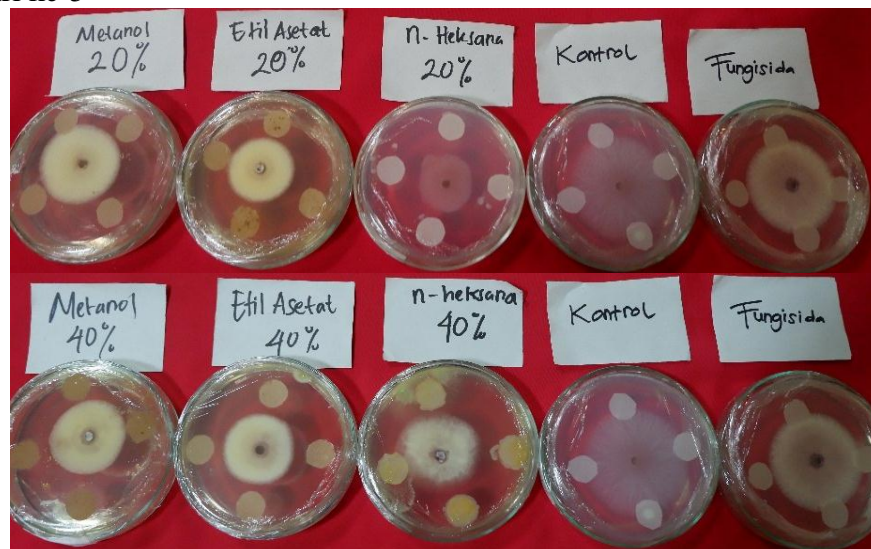


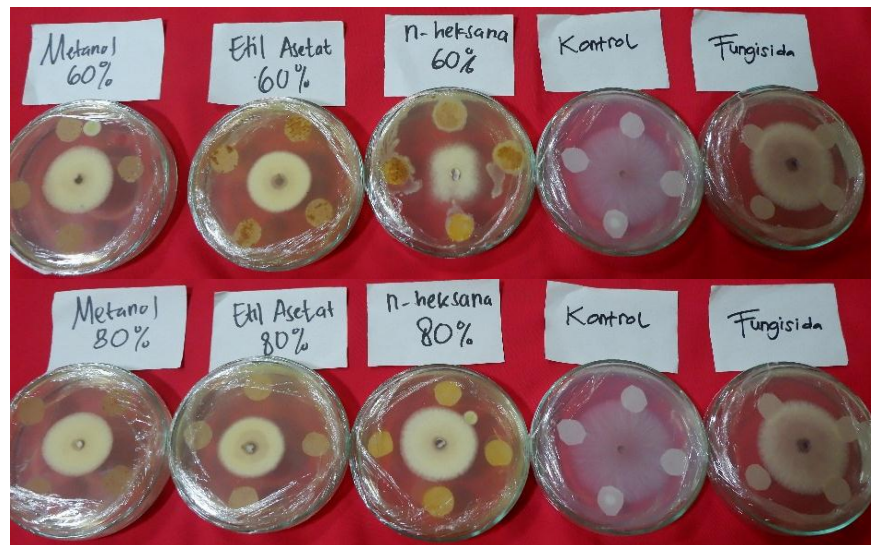
4. Hari ke-4





5. Hari ke-5

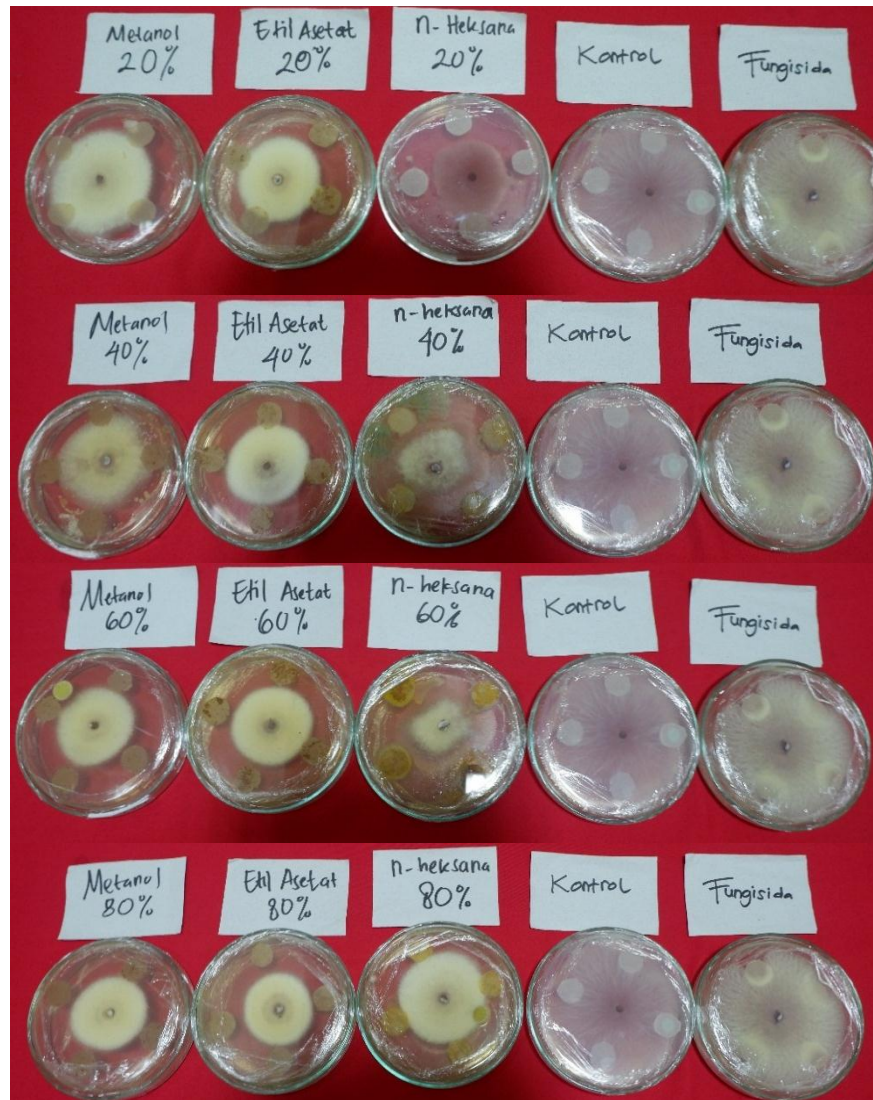




6. Hari ke-6



7. Hari ke-7



Lampiran 9. Alat dan Bahan Pendukung Penelitian



a) Biakan Murni
Jamur Fusarium



b) Larutan HCl 1%



c) Fungisida
sintetik



d) Waterbath



e) Rotary evaporator



f) Haemocytometer



g) Shaker



h) Timbangan digital



i) LAF



j) Tusuk gigi




k) Sedotan



l) Autoklaf

Lampiran 10. Hasil Uji Fitokimia Flavonoid



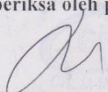
Lab. Chem-Mix Pratama

HASIL ANALISA
Nomor:002/CMP/04/2018

Laboratorium Pengujian : Laboratorium Chem-Mix Pratama
Tanggal Pengujian : 2 April 2018

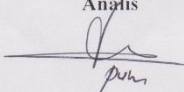
No	Kode Sample	Analisa	Ulangan 1	Ulangan 2
1	Ekstrak Bawang Methanol	Flavonoid	1.3412 %	1.3363 %
2	Ekstrak Bawang N-Hexane	Flavonoid	0.3294 %	0.3353 %
3	Ekstrak Bawang Ethyl Acetat	Flavonoid	0.6583 %	0.6531 %

Diperiksa oleh penyelia,



Sigit Sujarwo

Analisis



(.....)

Kretek, Jambidan, Banguntapan, Bantul, Yogyakarta
Telp. 085 100 116 832