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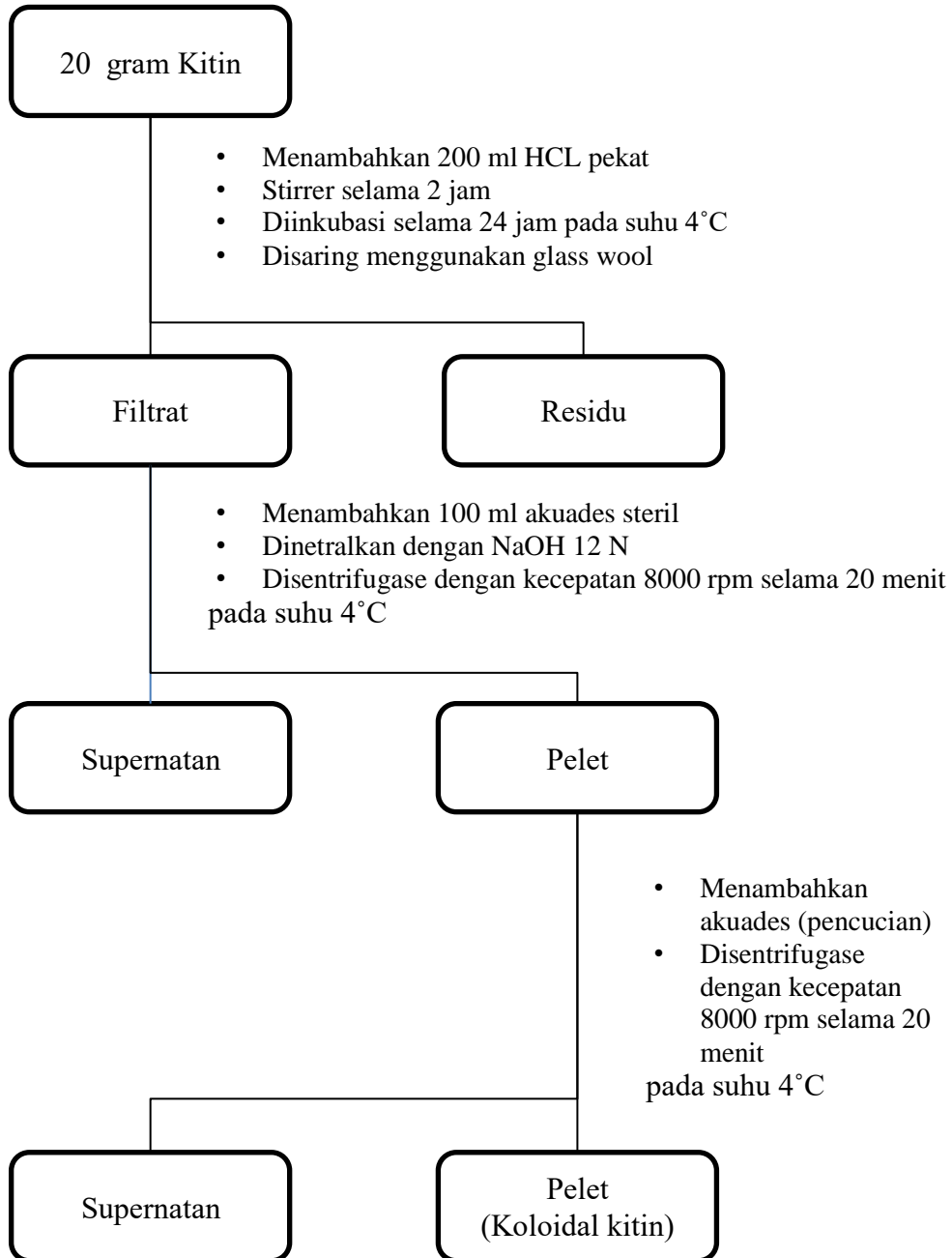


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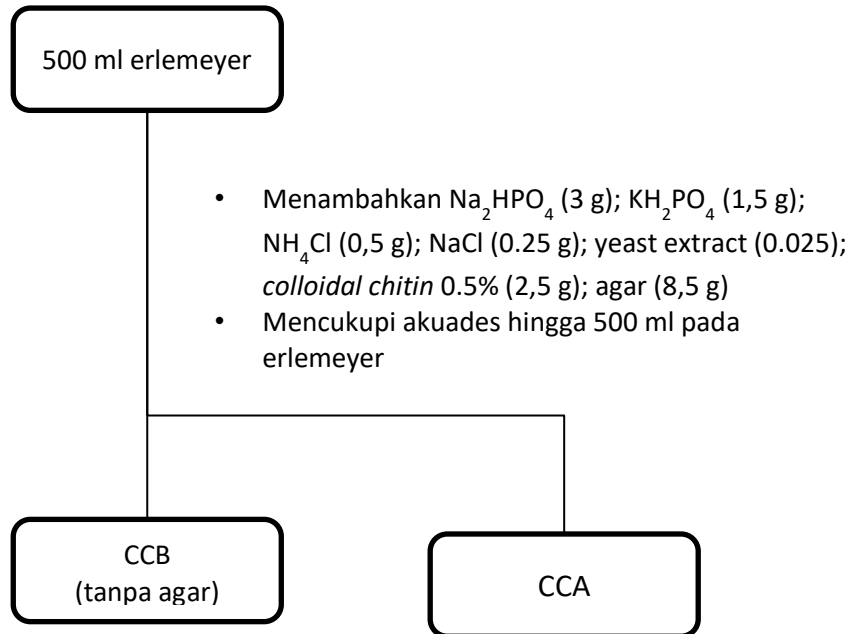


## LAMPIRAN

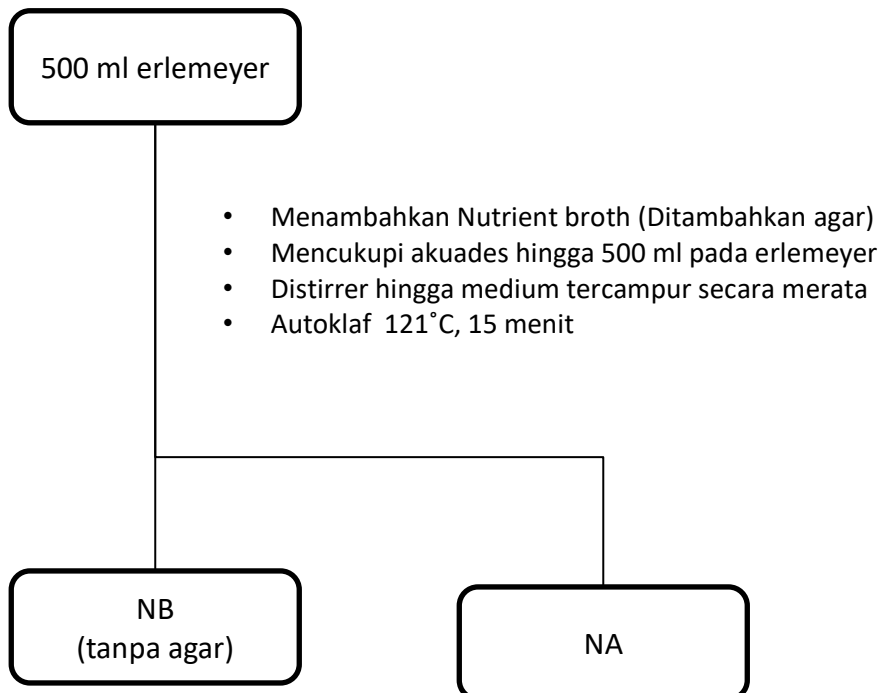
### Lampiran 1. Pembuatan koloidal kitin



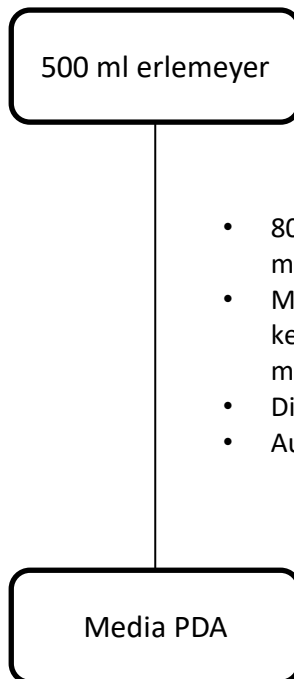
### Lampiran 2. Pembuatan media CCA dan CCB



### Lampiran 3. Pembuatan media NA dan NB

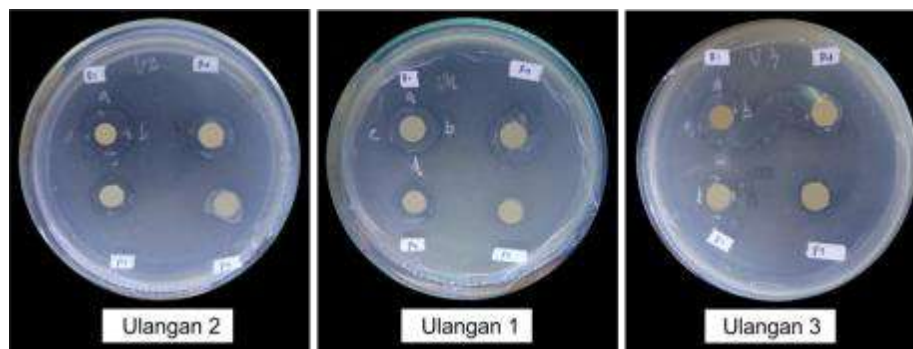


#### Lampiran 4. Pembuatan media PDA















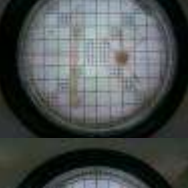



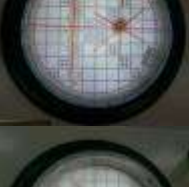


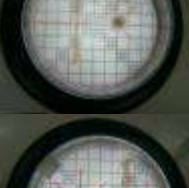







- 800 ml akuades dan 10 gram kentang di rebus hingga mengeluarkan ekstrak
- Menambahkan agar (7,5 g), gula (10 gram), ekstrak kentang dan ditambahkan akuades hingga mencukupi 500 ml pada erlemeyer
- Distirrer hingga medium tercampur secara merata
- Autoklaf 121°C, 15 menit

#### Lampiran 5. Aktivitas kitinolitik bakteri pada CCA medium



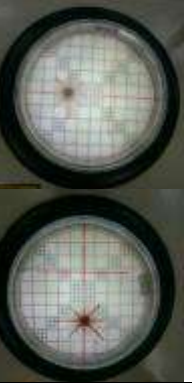



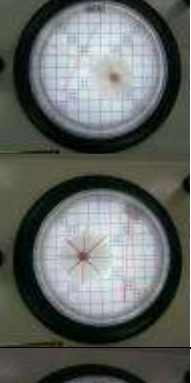






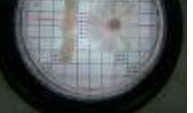





Lampiran 6. Pengamatan antagonisme bakteri dengan metode *dual culture*




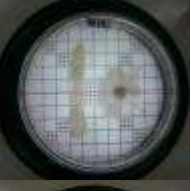
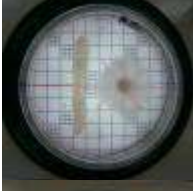




Pengamatan hari ke-1				
Jenis Media	Perlakuan	Ulangan 1	Ulangan 2	Ulangan 3
NA	Kontrol			
				
				
	IPpA3			
				
				
	IPpA2			
				
				
	IPaR4			










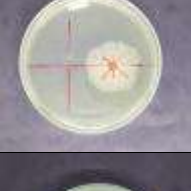
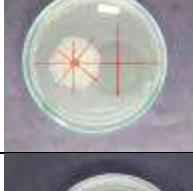









	<b>IPaR1</b>			
<b>PDA</b>	<b>Kontrol</b>			
	<b>IPaR1</b>			
	<b>IPaR4</b>			
	<b>IPpA2</b>			



Optimization Software:  
[www.balesio.com](http://www.balesio.com)

				
	<b>IPpA3</b>			
				



















<b>Pengamatan hari ke-2</b>				
<b>Jenis Media</b>	<b>Perlakuan</b>	<b>Ulangan 1</b>	<b>Ulangan 2</b>	<b>Ulangan 3</b>
<b>NA</b>	<b>Kontrol</b>			
				
	<b>IPaR1</b>			
				
	<b>IPaR4</b>			
				





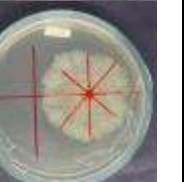



**Optimization Software:**  
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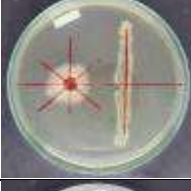




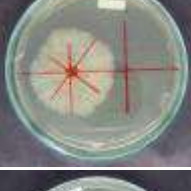
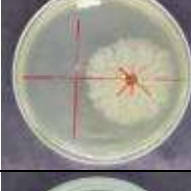
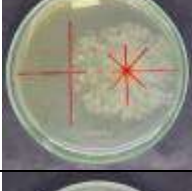






	<b>IPpA2</b>			
	<b>IPpA3</b>			
<b>PDA</b>	<b>Kontrol</b>			
	<b>IPaR1</b>			



	<b>IPaR4</b>			
				
	<b>IPpA2</b>			
				
	<b>IPpA3</b>			
				
















<b>Pengamatan hari ke-3</b>				
<b>Jenis Media</b>	<b>Perlakuan</b>	<b>Ulangan 1</b>	<b>Ulangan 2</b>	<b>Ulangan 3</b>
<b>NA</b>	<b>Kontrol</b>			
				



	<b>IPaR4</b>			
				
	<b>IPpA3</b>			
				
	<b>IPaR1</b>			
				
	<b>IPpA2</b>			
				

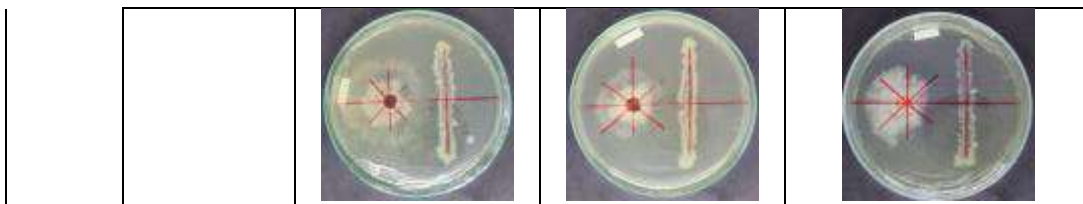


Pengamatan hari ke-4				
Perlakuan	Ulangan 1	Ulangan 2	Ulangan 3	

NA	Kontrol			
	IPaR1			
	IPaR4			
	IPpA2			
	IPpA3			



Optimization Software:  
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**Lampiran 7. Biomassa cendawan**

**Pertumbuhan Cendawan pada Media PDB**


















**Penimbangan Biomassa Cendawan**

Perlakuan	Ulangan	Berat Basah	Berat Kering
Control	U1		



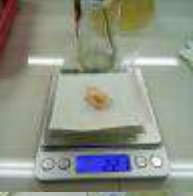









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	U2		
	U3		
IPaR1	U1		
	U2		
	U3		
IPaR4	U1		
	U2		
	U3		
IPa2	U1		











  
 Optimization Software:
   
[www.balesio.com](http://www.balesio.com)

	U2		
	U3		
IPpA3	U1		
	U2		
	U3		

**Lampiran 8. Pengamatan uji daya hambat filtrat bakteri kitinolitik**










No.	Kode Isolat	Gambar
1.	Kontrol	
2.	IPaR4 (5%)	
	IPaR4 (5%)	



4.	IPaR4 (5%)	
5.	IPaR1 (10%)	
6.	IPaR1 (10%)	
7.	IPaR1 (10%)	
8.	IPaR1 (5%)	
9.	IPaR1 (5%)	
10.	IPaR1 (5%)	
11.	IPpA2 (15%)	
	IPpA2 (15%)	












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13.	IPpA2 (15%)	
14.	IPpA3 (15%)	
15.	IPpA3 (15%)	
16.	IPpA2 (5%)	
17.	IPpA2 (5%)	
18.	IPpA2 (5%)	
19.	IPaR4 (15%)	
20.	IPaR4 (15%)	
	IPaR4 (15%)	



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22.	IPaR4 (10%)	
23.	IPaR4 (10%)	
24.	IPaR4 (10%)	
25.	IPpA2 (10%)	
26.	IPpA2 (10%)	
27.	IPpA3 (10%)	
28.	IPpA3 (10%)	
29.	IPpA3 (10%)	
	IPpA3 (5%)	

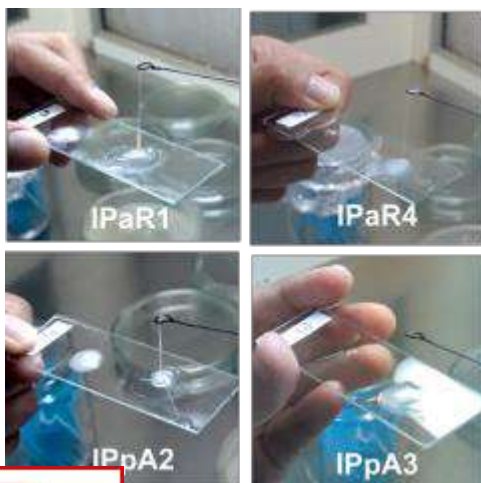


Optimization Software:  
[www.balesio.com](http://www.balesio.com)

31.	IPpA3 (5%)	
32.	IPpA3 (5%)	
33.	IPaR1 (15%)	
34.	IPaR1 (15%)	
35.	IPaR1 (15%)	

**Lampiran 9. Uji gram dan uji katalase**


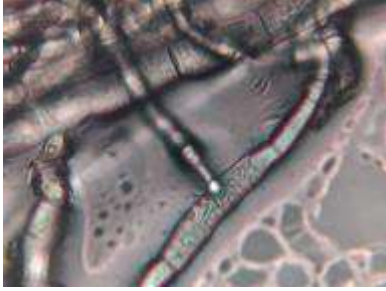



Uji gram



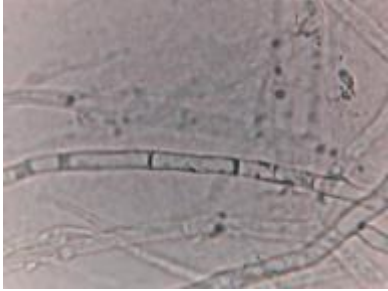




Uji Katalase



**Lampiran 10. Pengamatan secara mikroskopis hifa cendawan setelah uji daya filtrat bakteri**




No.	Kode Isolat	Gambar
1.	Kontrol	
2.	IPaR1	
3.	IPaR1	
4.	IPaR1	
5.	IPaR4	



6.	IPaR4	
7.	IPaR4	
8.	IPpA2	
9.	IPpA2	
10.	IPpA2	





11.	IPpA3	
12.	IPpA3	
13.	IPpA3	

**Lampiran 11. Indeks aktivitas bakteri kitinolitik**

Perlakuan	Ulangan				Rata-rata
	1	2	3	Total	
IPaR1	0.053	0.125	0.11	0.29	0.10
IPaR4	0.055	0.1	0.12	0.26	0.09
IPpA2	0.455	0.875	0.78	2.11	0.70
IPpA3	0.1	0.143	0.095	0.34	0.11
Total	0.66	1.24	1.09	2.99	1.00

**ANOVA**

Indeks

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.822	3	.274	21.364	.000
Within Groups	.103	8	.013		
Total	.925	11			



**Lampiran 12. Analisis data antagonisme bakteri kitinolitik terhadap cendawan *L. pseudotheobromae* pada media Nutrient Agar (NA)**

**a. Hari ke-1**

Kode Isolat	U1	U2	U3	Rerata
R1	28.57143	0	12.5	13.69048
R4	28.57143	20	62.5	37.02381
P2	42.85714	60	50	50.95238
P3	42.85714	20	50	37.61905
Kontrol	0	0	0	0

**ANOVA**

IH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5068.282	4	1267.071	6.151	.009
Within Groups	2060.034	10	206.003		
Total	7128.316	14			

**b. Hari ke-2**

Kode Isolat	U1	U2	U3	Rerata
R1	0	0	9.09	3.03
R4	43.75	40	63.64	49.13
P2	68.75	66.67	77.27	70.9
P3	56.25	60	68.18	61.48
Kontrol	0	0	0	0

**ANOVA**

IH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13254.334	4	3313.584	64.286	.000
Within Groups	515.445	10	51.545		
Total	13769.779	14			

**c. Hari ke-3**

Kode Isolat	U1	U2	U3	Rerata
R1	5.00	4.76	6.90	5.55
R4	60.00	52.38	75.86	62.75
P2	60.00	66.67	82.76	69.81
P3	85.00	66.67	75.86	75.84
Kontrol	0.00	0.00	0.00	0.00



**ANOVA**

IH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	16315.173	4	4078.793	55.753	.000
Within Groups	731.582	10	73.158		
Total	17046.755	14			

**d. Hari ke-4**

Kode Isolat	U1	U2	U3	Rerata
R1	0	0	26.47059	8.82
R4	61.53846	62.96296	73.52941	66.01
P2	61.53846	70.37037	85.29412	72.40
P3	88.46154	74.07407	76.47059	79.67
Kontrol	0.00	0.00	0.00	0.00

**NA H4**

**ANOVA**

IH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	17181.537	4	4295.384	44.737	.000
Within Groups	960.141	10	96.014		
Total	18141.678	14			

**Lampiran 13. Analisis data biomassa cendawan**

**a. Berat Basah**

**Berat Basah**

Perlakuan	Ulangan	Berat Basah	Persentase
Kontrol	u1	1.80	0
Kontrol	u2	2.18	0
Kontrol	u3	2.08	0
IPaR1	u1	2.51	0.00
IPaR1	u2	1.90	12.84
IPaR1	u3	1.62	22.12
IPaR4	u1	3.10	0.00
IPaR4	u2	1.42	34.86
IPaR4	u3	0.26	87.50
IPpA2	u1	2.18	0.00



<b>IPpA2</b>	u2	0.29	86.70
<b>IPpA2</b>	u3	2.21	0.00
<b>IPpA3</b>	u1	0.40	77.78
<b>IPpA3</b>	u2	0.30	86.24
<b>IPpA3</b>	u3	1.40	32.69

#### ANOVA

Persentase

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	7852.433	4	1963.108	1.818	.202
Within Groups	10796.260	10	1079.626		
Total	18648.693	14			

#### b. Berat Kering

##### Berat Kering

Perlakuan	Ulangan	Berat Kering	Persentase
<b>Kontrol</b>	u1	0.19	0
<b>Kontrol</b>	u2	0.33	0
<b>Kontrol</b>	u3	0.18	0
<b>IPaR1</b>	u1	0.47	0.00
<b>IPaR1</b>	u2	0.19	42.42
<b>IPaR1</b>	u3	0.13	27.78
<b>IPaR4</b>	u1	0.60	0.00
<b>IPaR4</b>	u2	0.12	63.64
<b>IPaR4</b>	u3	0.00	100.00
<b>IPpA2</b>	u1	0.22	0.00
<b>IPpA2</b>	u2	0.00	100.00
<b>IPpA2</b>	u3	0.29	0.00
<b>IPpA3</b>	u1	0.00	0.00
<b>IPpA3</b>	u2	0.00	100.00
<b>IPpA3</b>	u3	0.12	33.33

#### ANOVA

Persentase

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5277.806	4	1319.451	.737	.588
Within Groups	17904.464	10	1790.446		
Total	23182.269	14			



**Lampiran 14. Analisis data antagonisme bakteri kitinolitik terhadap cendawan *L. pseudotheobromae* pada media PDA**

**a. Hari ke-1**

Kode Isolat	U1	U2	U3	Rerata
R1	0	0	21.05	7.02
R4	11.11	5.56	26.32	14.33
P2	22.22	5.56	31.58	19.79
P3	27.78	11.11	21.05	19.98
Kontrol	0.00	0.00	0.00	0.00

**ANOVA**

IH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	894.896	4	223.724	2.205	.142
Within Groups	1014.614	10	101.461		
Total	1909.511	14			

**b. Hari ke-2**

Kode Isolat	U1	U2	U3	Rerata
R1	26.53	0	0	8.84
R4	53.06	11.90	2.70	22.56
P2	30.61	21.43	43.24	31.76
P3	55.10	19.05	18.92	31.02
Kontrol	0.00	0.00	0.00	0.00

**ANOVA**

IH

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	2352.206	4	588.051	1.949	.179
Within Groups	3017.059	10	301.706		
Total	5369.265	14			

**Lampiran 15. Persentase daya hambat filtrat bakteri terhadap *L. pseudotheobromae* menggunakan (pengamatan 12 jam)**



Perlakuan	Ulangan			Total	Rata-rata
	U1	U2	U3		
5%	0.41	0.46	0.46	1.33	0.44

	10%	0.46	0.44	0.46	1.37	0.46
	15%	0.49	0.44	0.46	1.39	0.46
R4	5%	0.27	0.39	0.37	1.02	0.34
	10%	0.29	0.39	0.41	1.10	0.37
	15%	0.46	0.46	0.51	1.44	0.48
P2	5%	0.22	0.20	0.27	0.68	0.23
	10%	0.41	0.24	0.32	0.97	0.32
	15%	0.56	0.66	0.68	1.90	0.63
P3	5%	0.20	0.29	0.27	0.76	0.25
	10%	0.34	0.37	0.41	1.12	0.37
	15%	0.51	0.44	0.41	1.37	0.46

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	.085	3	.028	13.306	.002
	Within Groups	.017	8	.002		
	Total	.102	11			
K10	Between Groups	.027	3	.009	2.796	.109
	Within Groups	.025	8	.003		
	Total	.052	11			
K15	Between Groups	.065	3	.022	10.526	.004
	Within Groups	.016	8	.002		
	Total	.081	11			

#### ANOVA

		Sum of Squares	Df	Mean Square	F	Sig.
IPaR1	Between Groups	.004	2	.002	2.264	.185
	Within Groups	.005	6	.001		
	Total	.008	8			
	Between Groups	.031	2	.016	5.114	.051



	Within Groups	.018	6	.003		
	Total	.049	8			
IPpA2	Between Groups	.267	2	.134	31.676	.001
	Within Groups	.025	6	.004		
	Total	.293	8			
IPpA3	Between Groups	.061	2	.030	14.951	.005
	Within Groups	.012	6	.002		
	Total	.073	8			

**Lampiran 16. Diameter daya hambat filtrat bakteri (pengamatan 12 jam)**

Perlakuan		Ulangan			Total	Rata-rata
		U1	U2	U3		
R1	5%	1.3	1.15	1.15	3.60	1.20
	10%	1.1	1.15	1.1	3.35	1.12
	15%	1.05	1.15	1.1	3.30	1.10
R4	5%	1.5	1.25	1.3	4.05	1.35
	10%	1.45	1.25	1.2	3.90	1.30
	15%	1.1	1.10	1.00	3.20	1.07
P2	5%	1.6	1.65	1.50	4.75	1.58
	10%	1.21	1.55	1.4	4.16	1.39
	15%	0.9	0.7	0.65	2.25	0.75
P3	5%	1.65	1.45	1.5	4.60	1.53
	10%	1.35	1.3	1.2	3.85	1.28
	15%	1	1.15	1.20	3.35	1.12

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	.278	3	.093	8.907	.006
	Within Groups	.083	8	.010		
	Total	.362	11			
	Between Groups	.115	3	.038	2.871	.104
	Within Groups	.106	8	.013		



	Total	.221	11			
K15	Between Groups	.271	3	.090	10.569	.004
	Within Groups	.068	8	.009		
	Total	.339	11			

#### ANOVA

		Sum of Squares	Df	Mean Square	F	Sig.
IPaR1	Between Groups	.017	2	.009	2.385	.173
	Within Groups	.022	6	.004		
	Total	.039	8			
IPaR4	Between Groups	.137	2	.069	5.370	.046
	Within Groups	.077	6	.013		
	Total	.214	8			
IPpA2	Between Groups	1.138	2	.569	32.610	.001
	Within Groups	.105	6	.017		
	Total	1.243	8			
IPpA3	Between Groups	.264	2	.132	14.394	.005
	Within Groups	.055	6	.009		
	Total	.319	8			

#### Lampiran 17. Persentase daya hambat filtrat bakteri (pengamatan 24 jam)

Konsentrasi	Ulangan	Kode Isolat				Total	Rata-rata
		R1	R4	P2	P3		
5%	1	0.51	0.25	0.20	0.32	1.27	0.32
	2	0.39	0.45	0.20	0.35	1.38	0.35
	3	0.39	0.45	0.33	0.24	1.40	0.35
10%	1	0.50	0.53	0.20	0.30	1.53	0.38
	2	0.39	0.52	0.20	0.38	1.49	0.37
	3	0.48	0.38	0.33	0.59	1.77	0.44
%	1	0.48	0.38	0.55	0.54	1.96	0.49
	2	0.49	0.54	0.60	0.45	2.08	0.52





	3	0.41	0.57	0.66	0.34	1.98	0.49
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**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	.062	3	.021	3.062	.091
	Within Groups	.054	8	.007		
	Total	.116	11			
K10	Between Groups	.103	3	.034	3.548	.068
	Within Groups	.077	8	.010		
	Total	.180	11			
K15	Between Groups	.046	3	.015	2.441	.139
	Within Groups	.051	8	.006		
	Total	.097	11			

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
IPaR1	Between Groups	.002	2	.001	.240	.794
	Within Groups	.020	6	.003		
	Total	.022	8			
IPaR4	Between Groups	.022	2	.011	1.069	.401
	Within Groups	.062	6	.010		
	Total	.084	8			
IPpA2	Between Groups	.259	2	.130	27.189	.001
	Within Groups	.029	6	.005		
	Total	.288	8			
IPpA3	Between Groups	.034	2	.017	1.445	.307
	Within Groups	.071	6	.012		
	Total	.106	8			



n 18. Diameter daya hambat filtrat bakteri (pengamatan 24 jam)

Perlakuan		Ulangan			Total	Rata-rata
		U1	U2	U3		
R1	5%	2.25	2.80	2.80	7.85	2.62
	10%	2.30	2.80	2.40	7.50	2.50
	15%	2.40	2.35	2.70	7.45	2.48
R4	5%	3.45	2.55	2.55	8.55	2.85
	10%	2.15	2.20	2.85	7.20	2.40
	15%	5.15	2.85	2.10	10.10	3.37
P2	5%	4.00	3.55	3.35	10.90	3.50
	10%	3.70	3.70	3.10	10.50	1.82
	15%	2.05	1.85	1.55	5.45	3.63
P3	5%	3.15	3.00	3.50	9.65	3.22
	10%	3.20	2.85	1.90	7.95	2.65
	15%	2.10	2.55	3.05	7.70	2.57

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	1.777	3	.592	4.328	.043
	Within Groups	1.095	8	.137		
	Total	2.872	11			
K10	Between Groups	2.271	3	.757	3.808	.058
	Within Groups	1.590	8	.199		
	Total	3.861	11			
K15	Between Groups	1.492	3	.497	2.873	.103
	Within Groups	1.385	8	.173		
	Total	2.877	11			

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
IPaR1	Between Groups	.032	2	.016	.230	.801
	Within Groups	.413	6	.069		
	Total	.445	8			
	Between Groups	.335	2	.168	.636	.562
	Within Groups	1.580	6	.263		



	Total	1.915	8			
IPpA2	Between Groups	6.152	2	3.076	31.368	.001
	Within Groups	.588	6	.098		
	Total	6.740	8			
IPpA3	Between Groups	.751	2	.375	1.513	.294
	Within Groups	1.488	6	.248		
	Total	2.239	8			

**Lampiran 19. Persentase daya hambat filtrat bakteri (pengamatan 36 jam)**

Perlakuan		Ulangan			Total	Rata-rata
		U1	U2	U3		
R1	5%	0.49	0.33	0.34	1.16	0.39
	10%	0.51	0.45	0.42	1.38	0.46
	15%	0.48	0.50	0.41	1.39	0.46
R4	5%	0.29	0.41	0.41	1.11	0.37
	10%	0.44	0.53	0.52	1.49	0.50
	15%	0.45	0.55	0.57	1.57	0.52
P2	5%	0.19	0.18	0.20	0.57	0.19
	10%	0.17	0.14	0.31	0.62	0.21
	15%	0.56	0.627	0.667	1.85	0.62
P3	5%	0.36	0.41	0.39	1.15	0.38
	10%	0.41	0.44	0.59	1.44	0.48
	15%	0.66	0.59	0.47	1.71	0.57

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	.221	3	.074	13.285	.002
	Within Groups	.044	8	.006		
	Total	.265	11			
K10	Between Groups	.169	3	.056	10.197	.004
	Within Groups	.044	8	.006		
	Total	.213	11			
	Between Groups	.041	3	.014	2.902	.101



Within Groups	.037	8	.005		
Total	.078	11			

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
R1	Between Groups	.011	2	.006	1.367	.324
	Within Groups	.025	6	.004		
	Total	.036	8			
R4	Between Groups	.040	2	.020	5.314	.047
	Within Groups	.023	6	.004		
	Total	.063	8			
P2	Between Groups	.356	2	.178	46.708	.000
	Within Groups	.023	6	.004		
	Total	.379	8			
P3	Between Groups	.052	2	.026	4.090	.076
	Within Groups	.038	6	.006		
	Total	.091	8			

**Lampiran 20. Diameter daya hambat filtrat bakteri (pengamatan 36 jam)**

Perlakuan		Ulangan			Total	Rata-rata
		U1	U2	U3		
R1	5%	3.80	5.05	4.95	13.80	4.60
	10%	3.70	4.10	4.35	12.15	4.05
	15%	3.90	3.75	4.45	12.10	4.03
R4	5%	5.35	4.40	4.45	14.20	4.73
	10%	4.20	3.55	3.60	11.35	3.78
	15%	4.15	3.35	3.20	10.70	3.57
P2	5%	6.10	6.15	6.00	18.25	6.08
	10%	6.20	6.45	5.20	17.85	5.95
	15%	3.30	2.80	2.50	8.60	2.87
P3	5%	4.80	4.45	4.60	13.85	4.62
	10%	4.40	4.20	3.10	11.70	3.90



	15%	2.55	3.10	4.00	9.65	3.22
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**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	4.654	3	1.551	7.709	.010
	Within Groups	1.610	8	.201		
	Total	6.264	11			
K10	Between Groups	9.461	3	3.154	10.820	.003
	Within Groups	2.332	8	.291		
	Total	11.792	11			
K15	Between Groups	2.236	3	.745	2.720	.115
	Within Groups	2.192	8	.274		
	Total	4.427	11			

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
R1	Between Groups	.624	2	.312	1.289	.342
	Within Groups	1.452	6	.242		
	Total	2.076	8			
R4	Between Groups	2.311	2	1.155	5.116	.051
	Within Groups	1.355	6	.226		
	Total	3.666	8			
P2	Between Groups	19.872	2	9.936	49.133	.000
	Within Groups	1.213	6	.202		
	Total	21.085	8			
P3	Between Groups	2.941	2	1.470	4.174	.073
	Within Groups	2.113	6	.352		
	Total	5.054	8			



**Lampiran 21. Persentase daya hambat filtrat bakteri (pengamatan 48 jam)**

Perlakuan		Ulangan			Total	Rata-rata
		U1	U2	U3		
R1	5%	0.42	0.43	0.37	1.22	0.41
	10%	0.43	0.40	0.37	1.20	0.40
	15%	0.48	0.30	0.27	1.05	0.35
R4	5%	0.26	0.32	0.34	0.92	0.31
	10%	0.40	0.50	0.47	1.37	0.46
	15%	0.35	0.49	0.51	1.35	0.45
P2	5%	0.18	0.20	0.21	0.59	0.20
	10%	0.18	0.15	0.27	0.60	0.20
	15%	0.51	0.66	0.57	1.74	0.58
P3	5%	0.30	0.34	0.37	1.02	0.34
	10%	0.39	0.38	0.55	1.32	0.44
	15%	0.37	0.62	0.61	1.59	0.53

**ANOVA**

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	.069	3	.023	21.638	.000
	Within Groups	.008	8	.001		
	Total	.077	11			
K10	Between Groups	.126	3	.042	10.196	.004
	Within Groups	.033	8	.004		
	Total	.159	11			
K15	Between Groups	.092	3	.031	2.650	.120
	Within Groups	.092	8	.012		
	Total	.184	11			

**ANOVA**

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.006	2	.003	.582	.587
Within Groups	.030	6	.005		



	Total	.035	8			
R4	Between Groups	.043	2	.022	5.401	.046
	Within Groups	.024	6	.004		
	Total	.067	8			
P2	Between Groups	.291	2	.146	44.444	.000
	Within Groups	.020	6	.003		
	Total	.311	8			
P3	Between Groups	.058	2	.029	2.868	.134
	Within Groups	.061	6	.010		
	Total	.119	8			

### Lampiran 22. Diameter daya hambat filtrat bakteri (pengamatan 48 jam)

Perlakuan		Ulangan			Total	Rata-rata
		U1	U2	U3		
R1	5%	4.75	4.70	5.15	14.60	4.87
	10%	4.65	4.95	5.15	14.75	4.92
	15%	4.30	5.75	5.95	16.00	5.33
R4	5%	6.05	5.55	5.45	17.05	5.68
	10%	4.90	4.10	4.35	13.35	4.45
	15%	5.30	4.15	4.05	13.50	4.50
P2	5%	6.75	6.60	6.45	19.80	6.60
	10%	6.70	7.00	6.00	19.70	6.57
	15%	4.05	2.80	3.50	10.35	3.45
P3	5%	5.70	5.40	5.15	16.25	5.42
	10%	5.00	5.10	3.70	13.80	4.60
	15%	5.20	3.15	3.20	11.55	3.85

### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
K5	Between Groups	4.714	3	1.571	23.945	.000
	Within Groups	.525	8	.066		
	Total	5.239	11			
	Between Groups	8.558	3	2.853	10.335	.004



	Within Groups	2.208	8	.276		
	Total	10.767	11			
K15	Between Groups	6.095	3	2.032	2.662	.119
	Within Groups	6.107	8	.763		
	Total	12.202	11			

**ANOVA**

		Sum of Squares	Df	Mean Square	F	Sig.
R1	Between Groups	.394	2	.197	.632	.564
	Within Groups	1.870	6	.312		
	Total	2.264	8			
R4	Between Groups	2.924	2	1.462	5.822	.039
	Within Groups	1.507	6	.251		
	Total	4.431	8			
P2	Between Groups	19.637	2	9.819	43.424	.000
	Within Groups	1.357	6	.226		
	Total	20.994	8			
P3	Between Groups	3.684	2	1.842	2.691	.146
	Within Groups	4.107	6	.684		
	Total	7.791	8			

