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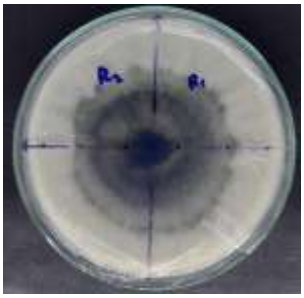
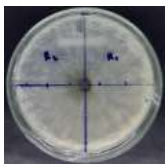
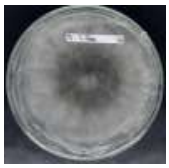
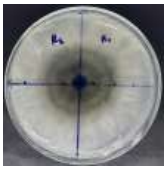
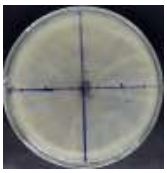
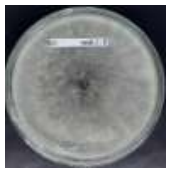
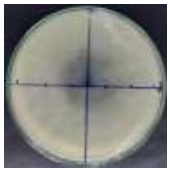
LAMPIRAN

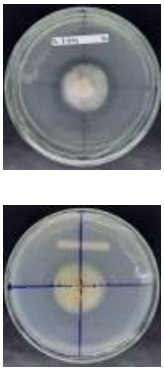
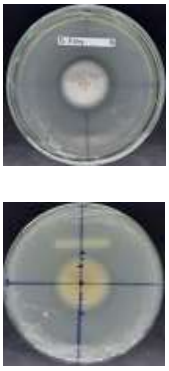
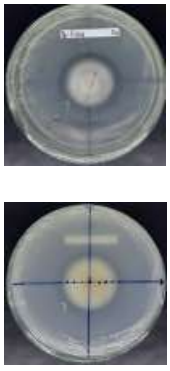
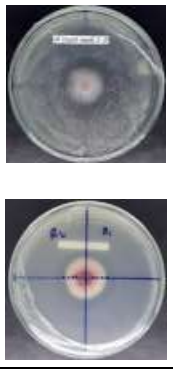
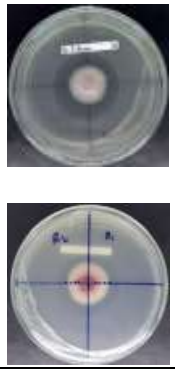
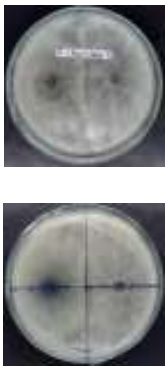
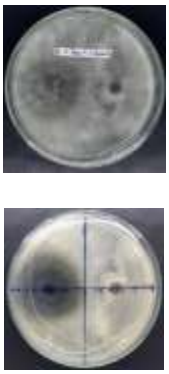
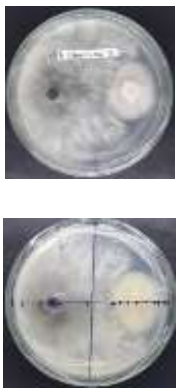
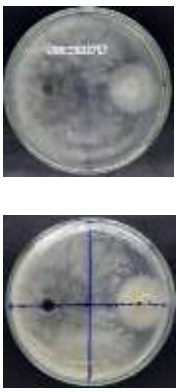
Gambar 1**.** Dokumentasi Pemurnian dan Perbanyakan Isolat

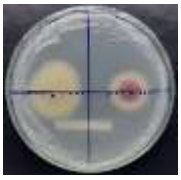
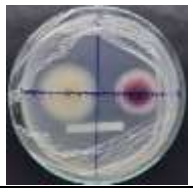
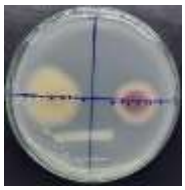
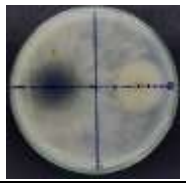
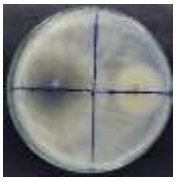
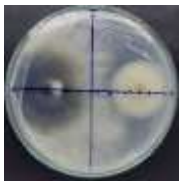
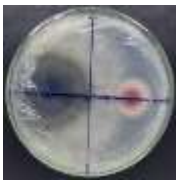
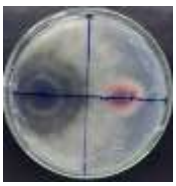
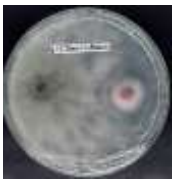
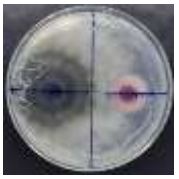
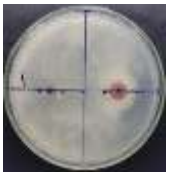
Nama Isolat	Tampak Depan	Tampak Belakang
Lasiodiplodia theobromae		
Lasiodiplodia brasiliensis		

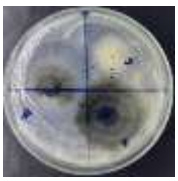
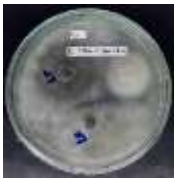
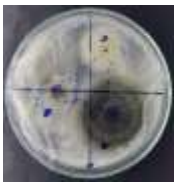
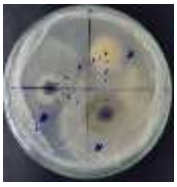
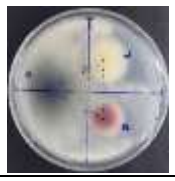
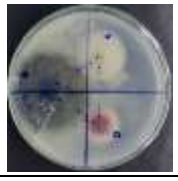
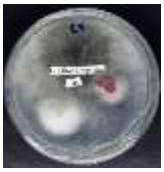
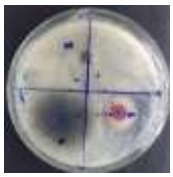
Fusarium oxysporum		
Fusarium decemcellulare		

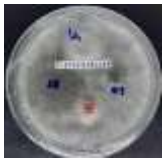
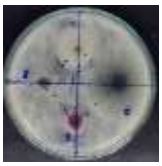
Gambar 2**.** Dokumentasi Cendawan

Perlakuan	U1	U2	U3	U4
A = *L. theobromae* (Kontrol)	 	 	 	 
B = *L. brasiliensis* (Kontrol)	 	 	 	 

C = *F. oxysporum* (Kontrol)				
D = *F. decemceluler* (Kontrol)				
AB = *L. theobromae* **X** *L. brasiliensis*				
BC = *L. brasiliensis* **X** *F. oxysporum*				

CD = *F. oxysporum* **X** *F. decemceluler*	 	 	 	 
AC = *L. theobromae* **X** *F. oxysporum*	 	 	 	 
AD = *L. theobromae* **X** *F. decemceluler*	 	 	 	 
BD = *L. brasiliensis* **X** *F. decemceluler*	 	 	 	 

ABC = *L. theobromae* **X** *L. brasiliensis* **X** *F. oxysporum*	 	 	 	 
ACD = *L. theobromae* **X** *F. oxysporum* **X** *F. decemceluler*	 	 	 	 
BAD = *L. brasiliensis* **X** *L. theobromae* **X** *F. decemceluler*	 	 	 	 
BCD = *L. brasiliensis* **X** *F. oxysporum* **X** *F. decemceluler*	 	 	 	 

ABCD = *L. theobromae* **X** *L. brasiliensis* **X** *F. oxysporum* **X** *F. decemceluler*	 	 	 	 

Gambar 3**.** Dokumentasi penelitian Uji *In Vitro* Daya Hambat Cendawan

Gambar 4. Dokumentasi Media Cair Uji Interaksi

Tabel 1. Penghambatan Pertumbuhan Cendawan *L. theobromae* terhadap *L. brasiliensis, F.oxysporum, F. decemceluler*

Perlakuan	Ulangan				Total	Rata-rata
	I	II	III	IV		
A	0	0	0	0	0	0
AB	48.89	48.89	33.33	24.44	155.56	38.89
AC	22.22	22.22	22.22	20.00	86.67	21.67
AD	22.22	24.44	15.56	24.44	86.67	21.67
ABC	51.11	44.44	44.44	41.11	181.11	45.28
ABD	51.11	47.78	35.56	43.33	177.78	44.44
ACD	37.78	36.67	33.33	27.78	135.56	33.89
ABCD	55.56	44.44	46.67	48.15	194.81	48.70
Grand Total					1018.15	31.82

Tabel 2. Analisis Varians (Sidik Ragam) dari Daya Hambat Cendawan *L. theobromae* terhadap *L. brasiliensis, F.oxysporum, F. decemceluler*

SK	Db	JK	KT	F. Hitung	Ket.	F.Tabel	
						0.05	0.01
Perlakuan	7	7593.96	1084.851	31.94977	**	2.422629	3.495928
Galat	24	814.92	33.9549				
Total	31	8408.88					
KK =	18%						

**: Sangat Berbeda Nyata

Tabel 3**.** Hasil Uji DMRT Taraf 0,05 Daya Hambat Cendawan Hambat Cendawan *L. theobromae* terhadap *L. brasiliensis, F.oxysporum, F. decemceluler*

Duncan's Multiple Range Test (DMRT)

```
Summary of the Result:
--------------------------------
PERLAKUAN     means     N group
--------------------------------
A              0.00     4     e
AB            38.89     4  bc
ABC           45.28     4 ab
ABCD          48.70     4 a
ABD           44.44     4 ab
AC            21.67     4    d
ACD           33.89     4   c
AD            21.67     4    d
```

Tabel 4. Penghambatan Pertumbuhan Cendawan *L. brasiliensis* terhadap *L. theobromae, F.oxysporum, F. decemceluler*

Perlakuan	Ulangan				Total	Rata-Rata
	I	II	III	IV		
B	0	0	0	0	0	0
BA	51.11	57.78	73.33	73.33	255.56	63.89
BC	22.22	22.22	22.22	20	86.67	21.67
BD	22.22	28.89	33.33	28.89	113.33	28.33
BAC	53.33	65.56	62.22	77.78	258.89	64.72
BCD	38.89	43.33	38.89	37.78	158.89	39.72
BAD	54.44	32.22	53.33	47.78	187.78	46.94
BACD	57.04	44.44	58.52	51.85	211.85	52.96
Grand Total					1272.96	39.78

Tabel 5. Analisis Varians (Sidik Ragam) dari Daya Hambat Cendawan *L. brasiliensis* terhadap *L. theobromae, F.oxysporum, F. decemceluler*

SK	Db	JK	KT	F. Hitung	Ket.	F.Tabel	
						0.05	0.01
Perlakuan	7	13880.17	1982.882	39.43562	**	2.42262853	3.495928
Galat	24	1206.756	50.28149				
Total	31	15086.93					
KK =	18%						

**: Sangat Berbeda Nyata

Tabel 6**.** Hasil Uji DMRT Taraf 0,05 Daya Hambat Cendawan Hambat Cendawan *L. brasiliensis* terhadap *L. theobromae, F.oxysporum, F. decemceluler*

Duncan's Multiple Range Test (DMRT)

```
Summary of the Result:
---------------------------------
PERLAKUAN     means     N group
---------------------------------
B              0.00     4     e
BA            63.89     4 a
BAC           64.72     4 a
BACD          52.96     4  b
BAD           46.94     4  bc
BC            21.67     4    d
BCD           39.72     4   c
BD            28.33     4    d
---------------------------------
```

Tabel 7. Penghambatan Pertumbuhan Cendawan *F. oxysporum* terhadap *L. theobromae, L. brasiliensis, F. decemceluler*

Sebelum Transformasi

Perlakuan	Ulangan				Total	Rata-Rata
	I	II	III	IV		
C	0.00	0.00	0.00	0.00	0.00	0.00
CB	16.67	22.22	22.22	21.05	82.16	20.54
CD	11.11	11.11	5.56	5.26	33.04	8.26
CA	11.11	22.22	22.22	15.79	71.34	17.84
CAB	25.00	13.89	33.33	31.58	103.80	25.95
CBD	44.44	27.78	27.78	23.68	123.68	30.92
CAD	22.22	25.00	25.00	26.32	98.54	24.64
CABD	40.74	33.33	18.52	43.86	136.45	34.11
Grand Total					649.01	20.28

Tabel 8. Analisis Varians (Sidik Ragam) dari Daya Hambat Cendawan *F. oxysporum* terhadap *L. theobromae, L. brasiliensis, F. decemceluler*

SK	Db	JK	KT	F. Hitung	Ket.	F.Tabel	
						0.05	0.01
Perlakuan	7	3669.8679	524.2668	12.33171	**	2.422628533	3.495928
Galat	24	1020.3293	42.51372				
Total	31	4690.1972					
KK =	32,1%						

**: Sangat Berbeda Nyata

Tabel 9. Penghambatan Pertumbuhan Cendawan *F. oxysporum* terhadap *L. theobromae, L. brasiliensis, F. decemceluler*

Setelah Transformasi

Perlakuan	Ulangan				Total	Rata-Rata
	I	II	III	IV		
C	0.71	0.71	0.71	0.71	2.83	0.71
CB	4.14	4.77	4.77	4.64	18.32	4.58
CD	3.41	3.41	2.46	2.40	11.68	2.92
CA	3.41	4.77	4.77	4.04	16.98	4.24
CAB	5.05	3.79	5.82	5.66	20.32	5.08
CBD	6.70	5.32	5.32	4.92	22.26	5.56
CAD	4.77	5.05	5.05	5.18	20.04	5.01
CABD	6.42	5.82	4.36	6.66	23.26	5.81
Grand Total					135.69	4.24

Tabel 10. Analisis Varians (Sidik Ragam) dari Daya Hambat Cendawan *F. oxysporum* terhadap *L. theobromae, L. brasiliensis, F. decemceluler*

SK	Db	JK	KT	F. Hitung	Ket.	F.Tabel	
						0.05	0.01
Perlakuan	7	79.509	11.358	26.795	**	2.423	3.496
Galat	24	10.174	0.4239				
Total	31	89.683					
KK =	15,4%						

**: Sangat Berbeda Nyata

Tabel 11**.** Hasil Uji DMRT Taraf 0,05 Daya Hambat Cendawan Hambat Cendawan *F. oxysporum* terhadap *L. theobromae, L. brasiliensis, F. decemceluler*

Duncan's Multiple Range Test (DMRT)

```
Summary of the Result:
--------------------------------
PERLAKUAN     means     N group
--------------------------------
C              0.00     4   c
CA            17.84     4  b
CAB           25.95     4 ab
CABD          34.11     4 a
CAD           24.63     4 ab
CB            20.54     4  b
CBD           30.92     4 a
CD             8.26     4   c
--------------------------------
```

Tabel 12. Penghambatan Pertumbuhan Cendawan *F. decemceluler* terhadap *L. theobromae, L. brasiliensis, F. oxysporum*

Sebelum Transformasi

Perlakuan	**Ulangan**				**Total**	**Rata-Rata**
	I	**II**	**III**	**IV**		
D	0.00	0.00	0.00	0.00	0.00	0.00
DC	12.50	7.14	15.38	7.14	42.16	10.54
DA	18.75	14.29	7.69	14.29	55.02	13.76
DB	31.25	14.29	7.69	21.43	74.66	18.67
DAC	37.50	21.43	11.54	21.43	91.90	22.98
DBC	50.00	3.57	23.08	21.43	98.08	24.52
DBA	37.50	28.57	23.08	21.43	110.58	27.65
DABC	37.50	28.57	15.36	28.57	110.00	27.50
Grand Total					582.40	18.20

Tabel 13. Analisis Varians (Sidik Ragam) dari Daya Hambat Cendawan *F. decemceluler* terhadap *L. theobromae, L. brasiliensis, F. oxysporum*

SK	db	JK	KT	F. Hitung	Ket.	F.Tabel	
						0.05	0.01
Perlakuan	7	2593.324	370.475	3.914	**	2.423	3.496
Galat	24	2271.688	94.654				
Total	31	4865.011					
KK =	53%						

**: Sangat Berbeda Nyata

Tabel 14. Penghambatan Pertumbuhan Cendawan *F. decemceluler* terhadap *L. theobromae, L. brasiliensis, F. oxysporum*

Setelah Transformasi

Perlakuan	**Ulangan**				**Total**	**Rata-Rata**
	I	**II**	**III**	**IV**		
D	0.71	0.71	0.71	0.71	2.83	0.71
DC	3.61	2.76	3.98	2.76	13.12	3.28
DA	4.39	3.85	2.86	3.85	14.94	3.74
DB	5.63	3.85	2.86	4.68	17.03	4.26
DAC	6.16	4.68	3.47	4.68	19.00	4.75
DBC	7.11	2.02	4.86	4.68	18.66	4.67
DBA	6.16	5.39	4.86	4.68	21.09	5.27
DABC	6.16	5.39	3.98	5.39	20.93	5.23
Grand Total					127.60	3.99

Tabel 15. Analisis Varians (Sidik Ragam) dari Daya Hambat Cendawan *F. decemceluler* terhadap *L. theobromae, L. brasiliensis, F. oxysporum*

SK	Db	JK	KT	F. Hitung	Ket.	F.Tabel	
						0.05	0.01
Perlakuan	7	62.575	8.939	7.943	**	2.423	3.496
Galat	24	27.011	1.125				
Total	31	89.586					
KK =	27%						

**: Sangat Berbeda Nyata

Tabel 16**.** Hasil Uji DMRT Taraf 0,05 Daya Hambat Cendawan Hambat Cendawan *F. decemceluler* terhadap *L. theobromae, L. brasiliensis, F. oxysporum*

Duncan's Multiple Range Test (DMRT)

Summary of the Result:

PERLAKUAN	means	N	group
D	0.00	4	c
DA	13.75	4	abc
DABC	27.50	4	a
DAC	22.98	4	ab
DB	18.66	4	ab
DBA	27.64	4	a
DBC	24.52	4	ab
DC	10.54	4	bc