DAFTAR LAMPIRAN

1. Hasil analisis sidik ragam (Anova) aktivitas antibakteri ekstrak daun jati (*Tectona Grandis* L.f.) terhadap bakteri *E. coli.*

RANCANGAN ACAK LENGKAP_ satu faktor
The ANOVA Procedure
Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	20
Error Mean Square	8.045

Number of Means	2	3	4	5
Critical Range	3.742	3.928	4.046	4.128

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	Perlakuan
	A	19.100	5	R4
B	A	15.400	5	R3
B		12.600	5	R2
	C	3.700	5	R1
	C	0.000	5	R0

2. Hasil analisis sidik ragam (Anova) pengujian total bakteri menggunakan metode Total Plate Count (TPC).

a. Analisis anova untuk interaksi Lama penyimpanan, bahan pengawet dan pengenceran (TPC).

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor
The ANOVA Procedure

Dependent Variable: Hasil

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	28	336203.6049	12007.2716	65.36	<.0001
Error	52	9552.7160	183.7061		
Corrected Total	80	345756.3210			

R-Square	Coeff Var	Root MSE	Hasil Mean
0.972372	8.781471	13.55382	154.3457

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Ulangan	2	4429.9506	2214.9753	12.06	<.0001
Lama	2	63865.5802	31932.7901	173.83	<.0001
Pengawet	2	170773.3580	85386.6790	464.80	<.0001
Encer	2	75394.3951	37697.1975	205. 20	<.0001
Lama*Pengawet	4	11046.2716	2761.5679	15.03	<.0001
Lama*Encer	4	3800.7901	950.1975	5.17	0.0014
Pengawet*Encer	4	5691.6790	1422.9198	7.75	<.0001
Lama*Pengawet*Encer	8	1201.5802	150.1975	0.82	0.5906

b. Analisis anova untuk Lama penyimpanan (TPC).

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

Note: This test controls the Type I comparisonwise error rate, not theexperimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	183.7061

Number of Means	2	3
Critical Range	7.402	7.786

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Lama
A	191.778	27	L3
B	147.111	27	L2
C	124.148	27	L1

c. Analisis anova untuk penggunaan bahan pengawet (TPC).

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	183.7061

Number of Means	2	3
Critical Range	7.402	7.786

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Pengawet
A	201.333	27	P1
B	169.667	27	P2
C	92.037	27	P3

d. Analisis anova untuk penggunaan pengenceran (TPC).

RANCANGAN ACAK LENGKAP_ Tiga (3)

The GLM Procedure

Duncan's Multiple Range Test for Hasil

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	183.7061

Number of Means	2	3
Critical Range	7.402	7.786

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Encer
A	191.111	27	E1
B	155.519	27	E2
C	116.407	27	E3

e. Analis anova untuk interaksi lama penyimpanan dan pengenceran (TPC).

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	183.7061

Number of Means	2	3	4	5	6	7	8	9
Critical Range	12.82	13.49	13.92	14.24	14.48	14.68	14.84	14.97

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Inter 1
A	258.444	9	L3P1
B	208.000	9	L3P2
C	183.111	9	L2P1
D	162.444	9	L1P1
D	161.333	9	L2P2
E	139.667	9	L1P2
F	108.889	9	L3P3
F	96.889	9	L2P3
G	70.333	9	L1P3

f. Analis anova untuk interaksi lama penyimpanan dan pengenceran (TPC).

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	183.7061

Number of Means	2	3	4	5	6	7	8	9
Critical Range	12.82	13.49	13.92	14.24	14.48	14.68	14.84	14.97

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Inter 2
A	220.778	9	L3E1
B	204.111	9	L3E2
C	182.333	9	L2E1
C	170.222	9	L1E1
D	150.444	9	L3E3
D	148.556	9	L2E2
E	113.889	9	L1E2
E	110.444	9	L2E3
F	88.333	9	L1E3

g. Analis anova untuk interaksi lama penggunaan bahan pengawet dan pengenceran (TPC).

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	183.7061

Number of Means	2	3	4	5	6	7	8	9
Critical Range	12.82	13.49	13.92	14.24	14.48	14.68	14.84	14.97

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Inter 3
A	242.667	9	P1E1
B	215.111	9	P2E1
B	207.333	9	P1E2
C	167.222	9	P2E2
D	154.000	9	P1E3
E	126.667	9	P2E3
E	115.556	9	P3E1
E	92.000	9	P3E2
G	68.556	9	P3E3

3. Hasil analisis sidik ragam (Anova) pengujian cemaran bakteri *E. coli*
   a. Analisis anova untuk interaksi Lama penyimpanan, bahan pengawet dan pengenceran *E. coli.*

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The ANOVA Procedure

Dependent Variable: Hasil

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	28	59999.45679	2142.83774	26.09	<.0001
Error	52	4270.41975	82.12346		
Corrected Total	80	64269.87654			

R-Square	Coeff Var	Root MSE	Hasil Mean
0.933555	25.47859	9.062199	35.56790

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Ulangan	2	488.91358	244.45679	2.98	0.0597
Lama	2	22978.24691	11489.12346	139.90	<.0001
Pengawet	2	24214.61728	12107.30864	147.43	<.0001
Encer	2	2945.06173	1472.53086	17.93	<.0001
Lama*Pengawet	4	5624.79012	1406.19753	17.12	<.0001
Lama*Encer	4	853.45679	213.36420	2.60	0.0467
Pengawet*Encer	4	2261.53086	565.38272	6.88	0.0002
Lama*Pengawet*Encer	8	632.83951	79.10494	0.96	0.4746

b. Analisis anova untuk Lama penyimpan *E. coli.*

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	82.12346

Number of Means	2	3
Critical Range	4.949	5.206

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Lama
A	59.370	27	L3
B	24.444	27	L2
B	22.889	27	L1

c. Analisis anova untuk Lama penyimpanan *E. coli.*

RANCANGAN ACAK LENGKAP_ Tiga (3)

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	82.12346

Number of Means	2	3
Critical Range	4.949	5.206

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Pengawet
A	55.444	27	P1
B	37.963	27	P2
C	13.296	27	P3

d. Analisis anova untuk pegenceran *E. coli.*

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	82.12346

Number of Means	2	3
Critical Range	4.949	5.206

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Encer
A	42.296	27	E1
B	36.741	27	E2
C	27.667	27	E3

e. Analisis anova untuk interaksi lama penyimpanan dan penggunaan bahan pengawet *E. coli.*

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	82.12346

Number of Means	2	3	4	5	6	7	8	9
Critical Range	8.57	9.02	9.31	9.52	9.68	9.81	9.92	10.01

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	Inter 1
	A	93.111	9	L3P1
	B	61.778	9	L3P2
	C	36.778	9	L2P1
	C	36.444	9	L1P1
D	C	30.556	9	L2P2
D		23.222	9	L3P3
D		21.556	9	L1P2
	E	10.667	9	L1P3
	E	6.000	9	L2P3

f. Analis anova untuk interaksi lama penyimpanan dan pengenceran *E. coli.*

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	82.12346

Number of Means	2	3	4	5	6	7	8	9
Critical Range	8.57	9.02	9.31	9.52	9.68	9.81	9.92	10.01

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	Inter 2
A	66.556	9	L3E1
A	65.222	9	L3E2
B	46.333	9	L3E3
C	33.111	9	L2E1
D C	27.222	9	L1E1
D C E	24.222	9	L1E2
D E	20.778	9	L2E2
D E	19.444	9	L2E3
E	17.222	9	L1E3

g. Analis anova untuk interaksi lama penggunaan bahan pengawet dan pengenceran *E. coli.*

RANCANGAN ACAK LENGKAP_ Tiga (3) faktor

The GLM Procedure

Duncan's Multiple Range Test for Hasil

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	52
Error Mean Square	82.12346

Number of Means	2	3	4	5	6	7	8	9
Critical Range	8.57	9.02	9.31	9.52	9.68	9.81	9.92	10.01

Duncan Grouping	Mean	N	Inter 3
A	70.000	9	P1E1
B	55.556	9	P1E2
C	46.222	9	P2E1
D C	40.778	9	P1E3
D E	37.111	9	P2E2
E	30.556	9	P2E3

	F	17.556	9	P3E2
	F	11.667	9	P3E3
	F	10.667	9	P3E1

DOKUMENTASI PENELITIAN

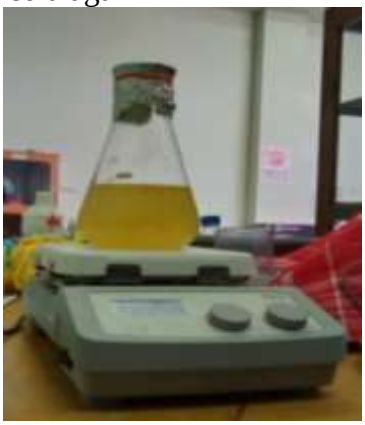
1. Pembuatan ekstrak daun jati



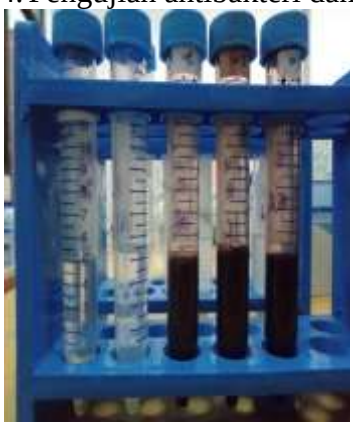
2. Pembagian konsentrasi ekstrak daun jati



3. Pembuatan dan strelisasi media agar


4. Pengujian antibakteri dan pengukuran zona bening

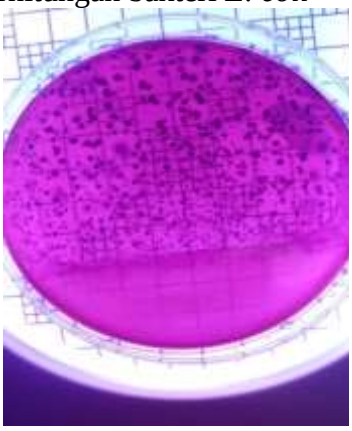


5. Pembagian konsentrasi ekstrak sebagai agen *curing se'i*



6. Perhitungan jumlah koloni bakteri secara umum dan berhitungan bakteri *E. coli*





RIWAYAT HIDUP

Penulis bernama lengkap Kaprisius Gundisalvus Fobia. Lahir di Desa Lemon Kecamatan Miomaffo Barat Kabupaten Timor Tengah Utara pada tanggal 30 Agustus 2000 merupakan anak kedua dari dua bersaudara dari pasangan Bapak Yohanes Fobia dan Ibu Elisabeth Babu. Penulis mengikuti pendidikan dasar di SDK Noelelo kemudian tamat dan berijazah pada tahun 2012, melanjutkan pendidikan tingkat sekolah menengah pertama di SMPN Oemofa dan tamat pada tahun 2015 kemudian penulis melanjutkan pendidikan sekolah menengah atas di SMA Negeri 1 Eban lalu tamat dan berijazah pada tahun 2018. Pertengahan tahun 2018 penulis mendaftarkan diri dan diterima pada Program Studi Peternakan, Fakultas Pertanian (FAPERTA), Universitas Timor-Kefamenanu melalui jalur SBMPTN hingga selesai penyusunan skripsi ini dengan motto ”**TERUSLAH BERJUANG MENYELESAIKAN APA YANG MENJADI KEWAJIBAN**”

Kefamenanu, Maret 2023

Kaprisius G. Fobia