

LAMPIRAN

Lampiran 1



KETERANGAN LAYAK ETIK
DESCRIPTION OF ETHICAL EXEMPTION
 "ETHICAL EXEMPTION"

No.275/KEPK-TJK/III/2024

Protokol penelitian versi 1 yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : M. Robi'u Rizqi Maulidi
Principal In Investigator

Nama Institusi : Poltekkes Kemenkes Tanjungkarang
Name of the Institution

Dengan judul:
Title

**"Efektifitas Minyak Atsiri Daun Cengkeh (*Syzygium Aromaticum*) terhadap Daya Tolak (*Repellent*)
 Kecoa (*Periplaneta Americana*)"**

*"Effectiveness of Clove Leaf Essential Oil (*Syzygium Aromaticum*) Against Cockroach Repellent (*Periplaneta Americana*)"*

Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan/Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards, 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standard.

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 04 Maret 2024 sampai dengan tanggal 04 Maret 2025.

This declaration of ethics applies during the period March 04, 2024 until March 04, 2025.



March 04, 2024
 Professor and Chairperson,

Dr. Aprina, S.Kp., M.Kes

Lampiran 2



**LABORATORIUM PENGUJIAN MUTU HASIL PERTANIAN
FAKULTAS PERTANIAN UNIVERSITAS LAMPUNG**

Jl. Sumantri Brojonegoro No.1 Bandar Lampung
Telp. 082185928209
e-mail : pmhp.fpumila@gmail.com

F 5.10.22.2

**Laporan Hasil Pengujian
No. 0090524011**

Pemohon : M. Robi'u Rizqi Maulidi
Alamat : Prum. Jatiwangi Garden 2, Jl. Paring Gg. Damai No. Raya,
Labuhan Dalam, Tanjung Senang, Bandar Lampung
Nama : Daun Cengkeh
Tanggal terima : 18 April 2024
Tanggal analisa : 29 April - 7 Mei 2024
Hasil pengujian

Sampel/Kode	Parameter Uji	Hasil Uji	Metode
Daun Cengkeh	1. Rendemen	1,50 %	IK 5.4.14.25
	2. Sensori		
	a. Warna	Coklat jernih	
	b. Aroma	Khas minyak cengkeh	

**Hasil yang ditampilkan hanya berlaku untuk contoh yang diuji*

Bandar Lampung, 7 Mei 2024

Mengetahui,
Kepala Laboratorium

Dr. Ir. Subeki, M.Si., M.Sc.
NIP. 196804091993031002

Pengambilan Laporan Hasil Pengujian harus dilakukan dengan seijin Kepala Laboratorium

Lampiran 3

Pencatatan Repelen Kecoa *P.amerika*

Kosentrasi	Waktu kontak	Jumlah kecoa	Repelen kecoa		Rata-rata Repelen (Ekor)	Persentase Repelen kecoa
			Replikasi 1	Replikasi 2		
0%	5 menit	10				
	10 menit	10				
	15 menit	10				
Jumlah kecoa yang tertolak		30				
0,1%	5 menit	10				
	10 menit	10				
	15 menit	10				
Jumlah kecoa yang tertolak		30				
0,25%	5 menit	10				
	10 menit	10				
	15 menit	10				
Jumlah kecoa yang tertolak		30				
0,5%	5 menit	10				
	10 menit	10				
	15 menit	10				
Jumlah kecoa yang tertolak		30				

Lampiran 4

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Hasil	,173	24	,062	,934	24	,119

a. Lilliefors Significance Correction

Between-Subjects Factors

	Value Label	N
Kosentrasi	1	0,1%
	2	0,25%
	3	0,5%
Waktu Kontak	1	5 menit
	2	10 menit
	3	15 menit

Descriptive Statistics

Dependent Variable: Repelen Kecoa

Kosentrasi	Waktu Kontak	Mean	Std. Deviation	N
0,1%	5 menit	4.000	.0000	2
	10 menit	2.500	.7071	2
	15 menit	2.000	1.4142	2
	Total	2.833	1.1690	6
0,25%	5 menit	4.500	.7071	2
	10 menit	4.000	.0000	2
	15 menit	2.500	.7071	2
	Total	3.667	1.0328	6
0,5%	5 menit	6.500	.7071	2
	10 menit	4.500	.7071	2
	15 menit	3.000	.0000	2
	Total	4.667	1.6330	6
Total	5 menit	5.000	1.2649	6
	10 menit	3.667	1.0328	6
	15 menit	2.500	.8367	6
	Total	3.722	1.4473	18

Tests of Between-Subjects Effects

Dependent Variable: Repelen Kecoa

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	31,111 ^a	8	3,889	7,778	,003
Intercept	249,389	1	249,389	498,778	,000
Kosentrasi	10,111	2	5,056	10,111	,005
Waktu	18,778	2	9,389	18,778	,001
Kosentrasi * Waktu	2,222	4	,556	1,111	,409

Error	4,500	9	,500		
Total	285,000	18			
Corrected Total	35,611	17			

Estimated Marginal Means

1. Kosentrasi

Dependent Variable: Repelen Kecoa

Kosentrasi	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
0,1%	2,833	,289	2,180	3,486
0,25%	3,667	,289	3,014	4,320
0,5%	4,667	,289	4,014	5,320

2. Waktu Kontak

Dependent Variable: Repelen Kecoa

Waktu Kontak	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
5 menit	5,000	,289	4,347	5,653
10 menit	3,667	,289	3,014	4,320
15 menit	2,500	,289	1,847	3,153

3. Kosentrasi * Waktu Kontak

Dependent Variable: Repelen Kecoa

Kosentrasi	Waktu Kontak	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
0,1%	5 menit	4,000	,500	2,869	5,131
	10 menit	2,500	,500	1,369	3,631
	15 menit	2,000	,500	,869	3,131
0,25%	5 menit	4,500	,500	3,369	5,631
	10 menit	4,000	,500	2,869	5,131
	15 menit	2,500	,500	1,369	3,631
0,5%	5 menit	6,500	,500	5,369	7,631
	10 menit	4,500	,500	3,369	5,631
	15 menit	3,000	,500	1,869	4,131

Post Hoc Tests

Kosentrasi

Multiple Comparisons

Dependent Variable: Repelen Kecoa

Tukey HSD

(I) Kosentrasi	(J) Kosentrasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
0,1%	0,25%	-.833	.4082	,158	-1.973	.306
	0,5%	-1.833*	.4082	,004	-2.973	-.694
0,25%	0,1%	.833	.4082	,158	-.306	1.973
	0,5%	-1.000	.4082	,085	-2.140	.140
0,5%	0,1%	1.833*	.4082	,004	.694	2.973
	0,25%	1.000	.4082	,085	-.140	2.140

Based on observed means.

The error term is Mean Square(Error) = ,500.

*. The mean difference is significant at the ,05 level.

Homogeneous Subsets**Repelen Kecoa**Tukey HSD^{a,b}

Kosentrasi	N	Subset	
		1	2
0,1%	6	2.833	
0,25%	6	3.667	3.667
0,5%	6		4.667
Sig.		,158	,085

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,500.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Waktu kontak**Multiple Comparisons**

Dependent Variable: Repelen Kecoa

Tukey HSD

(I) Waktu Kontak	(J) Waktu Kontak	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
5 menit	10 menit	1.333*	.4082	,024	.194	2.473
	15 menit	2.500*	.4082	,000	1.360	3.640
10 menit	5 menit	-1.333*	.4082	,024	-2.473	-.194
	15 menit	1.167*	.4082	,045	.027	2.306
15 menit	5 menit	-2.500*	.4082	,000	-3.640	-1.360
	10 menit	-1.167*	.4082	,045	-2.306	-.027

Based on observed means.

The error term is Mean Square(Error) = ,500.

*. The mean difference is significant at the ,05 level.

Homogeneous Subsets**Repelen Kecoa**Tukey HSD^{a,b}

Waktu Kontak	N	Subset		
		1	2	3
15 menit	6	2.500		
10 menit	6		3.667	
5 menit	6			5.000
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

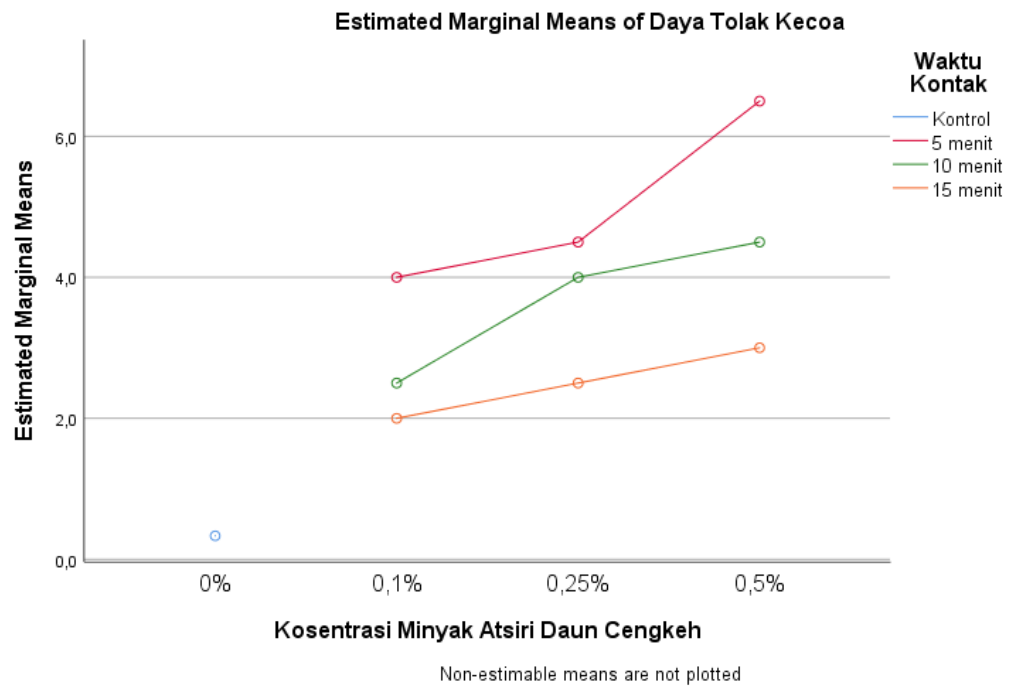
Based on observed means.

The error term is Mean Square(Error) = ,500.








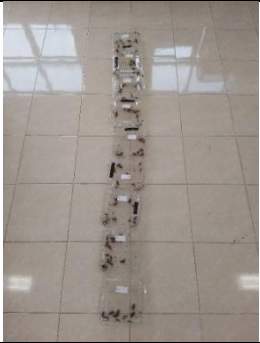
a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Profile Plots



Lampiran 5

			
Proses penelitian			
			
Pengukuran <i>P. americana</i>			
			
Periplanikol		Minyak atsiri daun <i>S. aromaticum</i>	
			
Perlakuan uji coba			



Daun cengkeh setelah di giling