L A M P I R A N

Lampiran 1. Hasil Determinasi Tanaman

UPT-LABORATORIUM

UNIVERSITAS SETIA BUDI SURAKARTA

Nomor : 268/DET/UPT-LAB/13.08.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Maulidha Yuniza Ananta
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Nama sampel : Cengkeh (*Syzygium aromaticum*. L)

HASIL DETERMINASI TUMBUHAN

KLASIFIKASI :

Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida
Ordo : Myrtales
Famili : Myrtaceae
Genus : Syzygium
Species : *Syzygium aromaticum*. L

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :
1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 16a. golongan 10. 239b – 243b – 244b – 248b – 249b – 250a – 251b – 253b – 254b – 255b – 256b – 261a – 262b – 263b – 264b. familia 94. Myrtaceae. 1b – 2b. 3. Eugenia. 1b – 3a. *Eugenia aromatica* O.K.sinonim *Eugenia caryophyllata* Thumb. dan *Syzygium aromaticum* M. & P.

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Deskripsi:

Habitus : Pohon, tinggi 5 – 10 meter.

Batang : Percabangan monopodial, berkayu.

Daun : Daun tunggal, bertangkai pendek, bangun memanjang, panjang 6 -7,5 cm, lebar 2,8 – 3 cm, pangkal sangat meruncing, tepi rata, serupa kulit, bagian atas mengkilat.

Bunga : Bunga malai rata hanya terminal, kadang-kadang berbunga sedikit. Tabung kelopak sedikit memanjang di atas bakal buah, hijau kuning, kemerahan, tinggi 1 – 1,5 cm, pinggiran taju bulat telur sampai segitiga, tinggi lk 4 cm. Daun mahkota bentuk seperti tudung, bulat lingkaran, kemerahan, panjang 4 – 5 mm, rontok awal. Lempeng benangsari tumbuh dengan baik. Benangsari panjang lk 0,5 cm. Tangkai putik pendek.

Buah : Buah buni memanjang sampai bentuk telur terbalik, panjang 2 – 2,5 cm.

Akar : Akar tunggang.

Surakarta, 13 Agustus 2021

Kepala UPT-LAB
Universitas Setia Budi

Asik Gunawan, Amdk

Penanggung jawab
Determinasi Tumbuhan

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Lampiran 2. Perhitungan Rendemen

a. Bobot kering terhadap bobot basah

$$\text{rendemen} = \frac{\text{bobot kering}}{\text{bobot basah}} \text{x } 100\%$$

$$\text{rendemen} = \frac{1611 \text{ g}}{7500 \text{ g}} \text{x } 100\%$$

$$\text{rendemen} = 21{,}48\%$$

b. Bobot serbuk terhadap bobot kering

$$\text{rendemen} = \frac{\text{bobot serbuk}}{\text{bobot kering}} \text{x } 100\%$$

$$\text{rendemen} = \frac{827 \text{ g}}{1611 \text{ g}} \text{x } 100\%$$

$$\text{rendemen} = 51{,}33\%$$

c. Bobot ekstrak terhadap bobot serbuk

$$\text{rendemen} = \frac{\text{bobot ekstrak}}{\text{bobot serbuk}} \text{x } 100\%$$

$$\text{rendemen} = \frac{174{,}59 \text{ g}}{650 \text{ g}} \text{x } 100\%$$

$$\text{rendemen} = 26{,}86\%$$

Lampiran 3. Perhitungan Kadar Lembab Ekstrak

Replikasi I

$$\text{kadar lembab} = \frac{\text{bobot awal} - \text{bobot akhir}}{\text{bobot awal}} \text{x } 100\%$$

$$\text{kadar lembab} = \frac{10{,}018 \text{ g} - 8{,}703 \text{ g}}{10{,}018 \text{ g}} \text{x } 100\%$$

$$\text{kadar lembab} = 13{,}12\%$$

Replikasi II

$$\text{kadar lembab} = \frac{\text{bobot awal} - \text{bobot akhir}}{\text{bobot awal}} \text{x } 100\%$$

$$\text{kadar lembab} = \frac{10{,}047 \text{ g} - 8{,}731 \text{ g}}{10{,}047 \text{ g}} \text{x } 100\%$$

$$\text{kadar lembab} = 13{,}09\%$$

Replikasi III

$$\text{kadar lembab} = \frac{\text{bobot awal} - \text{bobot akhir}}{\text{bobot awal}} \text{x } 100\%$$

$$\text{kadar lembab} = \frac{10{,}021 \text{ g} - 8{,}674 \text{ g}}{10{,}021 \text{ g}} \text{x } 100\%$$

$$\text{kadar lembab} = 13{,}44\%$$

Lampiran 4. Identifikasi Senyawa dan Uji Bebas Etanol Ekstrak

Flavonoid

Alkaloid (Dragendorff)

Alkaloid (Mayer)

Alkaloid (Bouchardat)

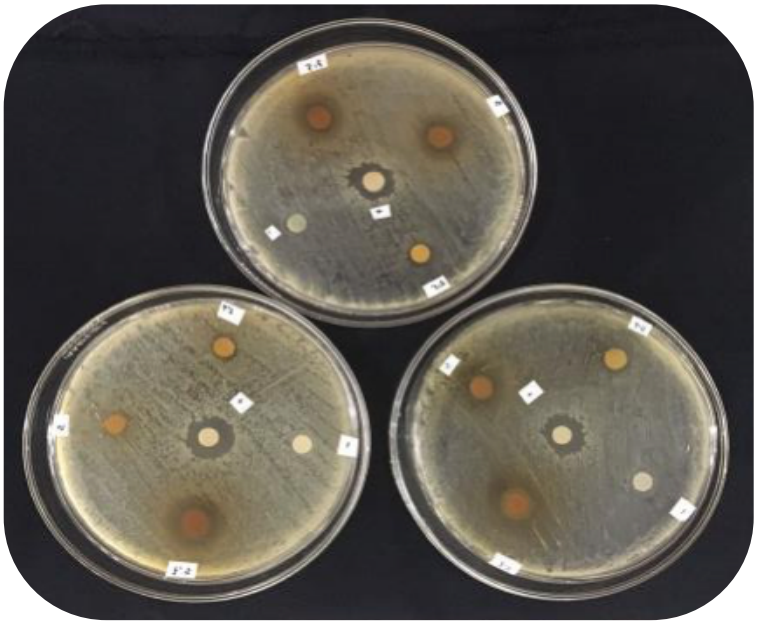
Tanin

Saponin

Steroid/Terpenoid

Bebas Etanol

Lampiran 5. Uji Aktivitas Antibakteri Ekstrak Bunga Cengkeh



Lampiran 6. Evaluasi Sediaan Obat Kumur

1. Organoleptis

Hari ke-1

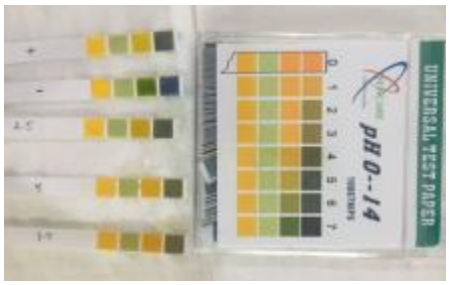
Hari ke-21

2. Homogenitas

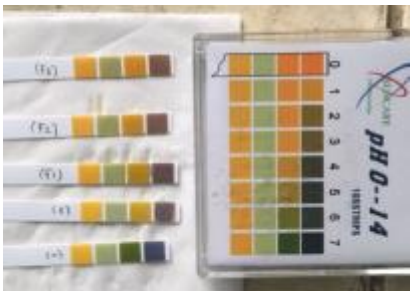
Hari ke-1

Hari ke-21

3. pH



Hari ke-1



Hari ke-21

Lampiran 7. Perhitungan Viskositas

Hari ke-1

Replikasi	K-	K+	F1	F2	F3
1	**0,53'**	**0,46'**	**0,48'**	**0,46'**	**0,53'**
2	**0,45'**	**0,52'**	**0,50'**	**0,54'**	**0,49'**
3	**0,48'**	**0,44'**	**0,49'**	**0,50'**	**0,51'**

η_{air} : 0,899 cp

ρ_{air} : 1,00

t_{air} : 0,35 detik

Berat air : 47,97 g – 23,67 g = 24,3 g

$\rho_{(-)}$: 48,43 g – 23,73 g = 24,70 g / 24,3 g = 1,016

$\rho_{(+)}$: 48,60 g – 23,71 g = 24,89 g / 24,3 g = 1,024

ρ_1 : 48,72 g – 23,75 g = 24,97 g / 24,3 g = 1,028

ρ_2 : 48,83 g – 23,76 g = 25,07 g / 24,3 g = 1,032

ρ_3 : 48,97 g – 23,78 g = 25,19 g / 24,3 g = 1,037

a. Viskositas K-

Replikasi 1

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0,53 \,.\, 1,016}{0,35 \,.\, 1} \text{ x } 0,899$$

$$\eta x = \frac{0,538}{0,35} \text{ x } 0,899$$

$$\eta x = 1,383 \text{ cp}$$

Replikasi 2

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0,45 \,.\, 1,016}{0,35 \,.\, 1} \text{ x } 0,899$$

$$\eta x = \frac{0,457}{0,35} \text{ x } 0,899$$

$$\eta x = 1,174 \text{ cp}$$

Replikasi 3

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0,48 \,.\, 1,016}{0,35 \,.\, 1} \text{ x } 0,899$$

$$\eta x = \frac{0,488}{0,35} \text{ x } 0,899$$

$$\eta x = 1,253 \text{ cp}$$

b. Viskositas K+

Replikasi 1

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

Replikasi 2

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

Replikasi 3

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0,46 \,.\, 1,024}{0,35 \,.\, 1} \text{x } 0,899 \qquad \eta x = \frac{0,52 \,.\, 1,024}{0,35 \,.\, 1} \text{x } 0,899 \qquad \eta x = \frac{0,44 \,.\, 1,024}{0,35 \,.\, 1} \text{x } 0,899$$

$$\eta x = \frac{0,471}{0,35} \text{x } 0,899 \qquad \eta x = \frac{0,532}{0,35} \text{x } 0,899 \qquad \eta x = \frac{0,451}{0,35} \text{x } 0,899$$

$$\eta x = 1,210 \text{ cp} \qquad \eta x = 1,368 \text{ cp} \qquad \eta x = 1,157 \text{ cp}$$

c. Viskositas F1

Replikasi 1 **Replikasi 2** **Replikasi 3**

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air$$

$$\eta x = \frac{0,48 \,.\, 1,028}{0,35 \,.\, 1} \text{x } 0,899 \qquad \eta x = \frac{0,50 \,.\, 1,028}{0,35 \,.\, 1} \text{x } 0,899 \qquad \eta x = \frac{0,49 \,.\, 1,028}{0,35 \,.\, 1} \text{x } 0,899$$

$$\eta x = \frac{0,493}{0,35} \text{x } 0,899 \qquad \eta x = \frac{0,514}{0,35} \text{x } 0,899 \qquad \eta x = \frac{0,504}{0,35} \text{x } 0,899$$

$$\eta x = 1,267 \text{ cp} \qquad \eta x = 1,320 \text{ cp} \qquad \eta x = 1,294 \text{ cp}$$

d. Viskositas F2

Replikasi 1 **Replikasi 2** **Replikasi 3**

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air$$

$$\eta x = \frac{0,46 \,.\, 1,032}{0,35 \,.\, 1} \text{x } 0,899 \qquad \eta x = \frac{0,54 \,.\, 1,032}{0,35 \,.\, 1} \text{x } 0,899 \qquad \eta x = \frac{0,50 \,.\, 1,032}{0,35 \,.\, 1} \text{x } 0,899$$

$$\eta x = \frac{0,475}{0,35} \text{x } 0,899 \qquad \eta x = \frac{0,557}{0,35} \text{x } 0,899 \qquad \eta x = \frac{0,516}{0,35} \text{x } 0,899$$

$$\eta x = 1,219 \text{ cp} \qquad \eta x = 1,431 \text{ cp} \qquad \eta x = 1,325 \text{ cp}$$

e. Viskositas F3

Replikasi 1 **Replikasi 2** **Replikasi 3**

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{x } \eta air$$

$$\eta x = \frac{0{,}53 \,.\, 1{,}037}{0{,}35 \,.\, 1} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}49 \,.\, 1{,}037}{0{,}35 \,.\, 1} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}51 \,.\, 1{,}037}{0{,}35 \,.\, 1} \text{ x } 0{,}899$$

$$\eta x = \frac{0{,}550}{0{,}35} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}508}{0{,}35} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}529}{0{,}35} \text{ x } 0{,}899$$

$$\eta x = 1{,}412 \text{ cp} \qquad \eta x = 1{,}305 \text{ cp} \qquad \eta x = 1{,}358 \text{ cp}$$

Hari ke-21

Replikasi	K-	K+	F1	F2	F3
1	**0,49'**	**0,41'**	**0,45'**	**0,43'**	**0,45'**
2	**0,42'**	**0,47'**	**0,50'**	**0,51'**	**0,50'**
3	**0,47'**	**0,45'**	**0,42'**	**0,48'**	**0,49'**

η_{air} : 0,899 cp

ρ_{air} : 1,00

t_{air} : 0,33 detik

Berat air : 47,83 g – 23,66 g = 24,17 g

$\rho_{(-)}$: 48,46 g – 23,75 g = 24,71 g / 24,17 g = 1,022

$\rho_{(+)}$: 48,59 g – 23,72 g = 24,87 g / 24,17 g = 1,029

ρ_1 : 48,73 g – 23,77 g = 24,96 g / 24,17 g = 1,033

ρ_2 : 48,81 g – 23,79 g = 25,02 g / 24,17 g = 1,035

ρ_3 : 48,90 g – 23,78 g = 25,12 g / 24,17 g = 1,039

a. Viskositas K-

Replikasi 1 **Replikasi 2** **Replikasi 3**

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air \qquad \eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}49 \,.\, 1{,}022}{0{,}34 \,.\, 1} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}42 \,.\, 1{,}022}{0{,}34 \,.\, 1} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}47 \,.\, 1{,}022}{0{,}34 \,.\, 1} \text{ x } 0{,}899$$

$$\eta x = \frac{0{,}501}{0{,}34} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}429}{0{,}34} \text{ x } 0{,}899 \qquad \eta x = \frac{0{,}480}{0{,}34} \text{ x } 0{,}899$$

$$\eta x = 1{,}324 \text{ cp} \qquad \eta x = 1{,}135 \text{ cp} \qquad \eta x = 1{,}270 \text{ cp}$$

b. Viskositas K+

Replikasi 1

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}41 \,.\, 1{,}029}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}422}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}116 \text{ cp}$$

Replikasi 2

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}47 \,.\, 1{,}029}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}484}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}279 \text{ cp}$$

Replikasi 3

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}45 \,.\, 1{,}029}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}463}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}224 \text{ cp}$$

c. Viskositas F1

Replikasi 1

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}45 \,.\, 1{,}033}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}465}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}229 \text{ cp}$$

Replikasi 2

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}50 \,.\, 1{,}033}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}517}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}366 \text{ cp}$$

Replikasi 3

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}42 \,.\, 1{,}033}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}434}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}147 \text{ cp}$$

d. Viskositas F2

Replikasi 1

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}43 \,.\, 1{,}035}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}445}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}177 \text{ cp}$$

Replikasi 2

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}51 \,.\, 1{,}035}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}528}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}396 \text{ cp}$$

Replikasi 3

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}48 \,.\, 1{,}035}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}497}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}314 \text{ cp}$$

e. Viskositas F3

Replikasi 1

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}45 \,.\, 1{,}039}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}468}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}236 \text{ cp}$$

Replikasi 2

$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}50 \,.\, 1{,}039}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}520}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}374 \text{ cp}$$

Replikasi 3

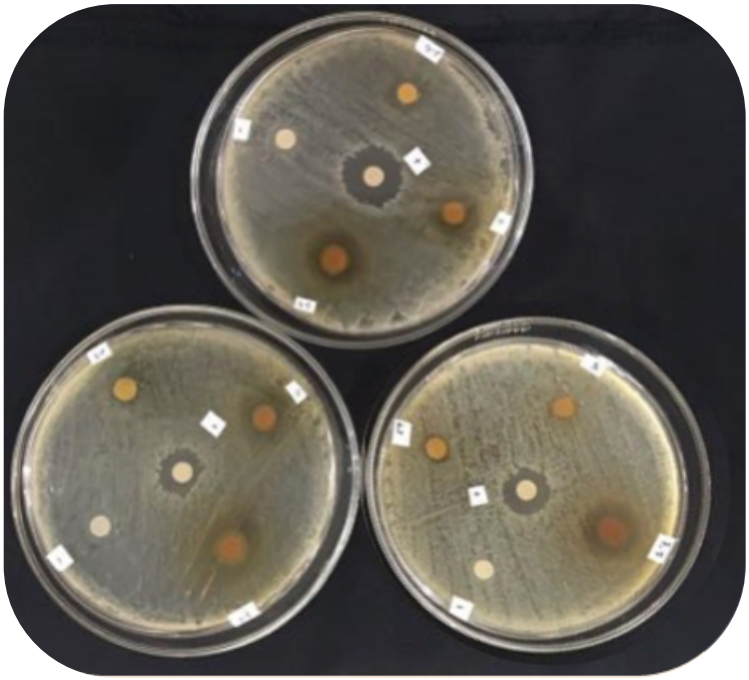
$$\eta x = \frac{tx \,.\, \rho x}{tair \,.\, \rho air} \text{ x } \eta air$$

$$\eta x = \frac{0{,}49 \,.\, 1{,}039}{0{,}34 \,.\, 1} \text{x } 0{,}899$$

$$\eta x = \frac{0{,}509}{0{,}34} \text{x } 0{,}899$$

$$\eta x = 1{,}346 \text{ cp}$$

Lampiran 8. Uji Aktivitas Antibakteri Obat Kumur Bunga Cengkeh



Lampiran 9. Analisis Statistik Viskositas

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
negatif_h1	,231	3	.	,981	3	,733
negatif_h21	,276	3	.	,942	3	,537
positif_h1	,292	3	.	,924	3	,466
positif_h21	,251	3	.	,966	3	,646
f1_h1	,176	3	.	1,000	3	,979
f1_h21	,232	3	.	,979	3	,725
f2_h1	,175	3	.	1,000	3	1,000
f2_h21	,232	3	.	,979	3	,725
f3_h1	,175	3	.	1,000	3	,990
f3_h21	,313	3	.	,895	3	,369

a. Lilliefors Significance Correction

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	negatif_h1	1,27000	3	,105532	,060929
	negatif_h21	1,24300	3	,097350	,056205
Pair 2	positif_h1	1,24500	3	,109768	,063375
	positif_h21	1,20633	3	,082924	,047876
Pair 3	f1_h1	1,29367	3	,026502	,015301
	f1_h21	1,24733	3	,110645	,063881
Pair 4	f2_h1	1,32500	3	,106000	,061199
	f2_h21	1,29567	3	,110645	,063881
Pair 5	f3_h1	1,35833	3	,053501	,030889
	f3_h21	1,31867	3	,072947	,042116

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	negatif_h1 & negatif_h21	3	,928	,244
Pair 2	positif_h1 & positif_h21	3	,579	,607
Pair 3	f1_h1 & f1_h21	3	,611	,582
Pair 4	f2_h1 & f2_h21	3	,990	,092
Pair 5	f3_h1 & f3_h21	3	-,948	,207

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	k-_h1 - k-_h21	,027000	,039395	,022745	-,070864	,124864	1,187	2	,357
Pair 2	k+_h1 - k+_h21	,038667	,091544	,052853	-,188742	,266075	,732	2	,541
Pair 3	f1_h1 - f1_h21	,046333	,096769	,055870	-,194055	,286722	,829	2	,494
Pair 4	f2_h1 - f2_h21	,029333	,016258	,009387	-,011055	,069721	3,125	2	,089
Pair 5	f3_h1 - f3_h21	,039667	,124821	,072066	-,270406	,349740	,550	2	,637

Lampiran 10. Analisis Statistik Zona Hambat Ekstrak

Tests of Normality[a]

	kelompok	Kolmogorov-Smirnov[b]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
zona_hambat	positif	,196	3	.	,996	3	,878
	2,5%	,253	3	.	,964	3	,637
	5%	,241	3	.	,974	3	,688
	7,5%	,175	3	.	1,000	3	1,000

a. zona_hambat is constant when kelompok = negatif. It has been omitted.

b. Lilliefors Significance Correction

Test of Homogeneity of Variances

zona_hambat

Levene Statistic	df1	df2	Sig.
1,823	4	10	,201

ANOVA

zona_hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	272,257	4	68,064	293,381	,000
Within Groups	2,320	10	,232		
Total	274,577	14			

Homogeneous Subsets

zona_hambat

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05		
		1	2	3
negatif	3	,000		
2,5%	3		7,467	
5%	3		8,367	
7,5%	3			11,200
positif	3			12,033
Sig.		1,000	,225	,284

Means for groups in homogeneous subsets are displayed.

Lampiran 11. Analisis Statistik Zona Hambat Formula

Tests of Normality[a]

	kelompok	Kolmogorov-Smirnov[b]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
zona_hambat	k+	,279	3	.	,939	3	,525
	f1	,175	3	.	1,000	3	1,000
	f2	,253	3	.	,964	3	,637
	f3	,219	3	.	,987	3	,780

a. zona_hambat is constant when kelompok = k-. It has been omitted.

b. Lilliefors Significance Correction

Test of Homogeneity of Variances

zona_hambat

Levene Statistic	df1	df2	Sig.
3,004	4	10	,072

ANOVA

zona_hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	296,283	4	74,071	129,645	,000
Within Groups	5,713	10	,571		
Total	301,996	14			

Homogeneous Subsets

zona_hambat

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05		
		1	2	3
k-	3	,0000		
f1	3		8,0000	
f2	3		9,1333	
f3	3			11,6000
k+	3			12,5667
Sig.		1,000	,406	,547

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 12. Analisis Statistik Perbedaan Zona Hambat Ekstrak dan Formula

Tests of Normality[a,c]

	kelompok	Kolmogorov-Smirnov[b]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
zona_hambat	positif ekstrak	,196	3	.	,996	3	,878
	2,5%	,253	3	.	,964	3	,637
	5%	,241	3	.	,974	3	,688
	7,5%	,175	3	.	1,000	3	1,000
	positif formula	,279	3	.	,939	3	,525
	f1	,175	3	.	1,000	3	1,000
	f2	,253	3	.	,964	3	,637
	f3	,219	3	.	,987	3	,780

a. zona_hambat is constant when kelompok = negatif ekstrak. It has been omitted.

b. Lilliefors Significance Correction

c. zona_hambat is constant when kelompok = negatif formula. It has been omitted.

Test of Homogeneity of Variances

zona_hambat

Levene Statistic	df1	df2	Sig.
2,561	9	20	,058

ANOVA

zona_hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	570,036	9	63,337	157,686	,000
Within Groups	8,033	20	,402		
Total	578,070	29			

Homogeneous Subsets

zona_hambat

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05		
		1	2	3
negatif ekstrak	3	,000		
negatif formula	3	,000		
2,5%	3		7,467	
f1	3		8,000	
5%	3		8,367	
f2	3		9,133	
7,5%	3			11,200
f3	3			11,600
positif ekstrak	3			12,033
positif formula	3			12,567
Sig.		1,000	,094	,262

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.