

**L
A
M
P
I
R
A
N**

Lampiran 1. Determinasi tanaman



UPT-LABORATORIUM
UNIVERSITAS SETIA BUDI SURAKARTA

Jl. Letjen Sutoyo, Mojosongo-Solo 57127 Telp. 0271-852518, Fax. 0271-853275

Nomor : 313/DET/UPT-LAB/5.12.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Alisa
NIDN : 24185549A
Alamat : Prodi S1 Farmasi,
Universitas Setia Budi, Surakarta
Nama sampel : *Citrus aurantifolia*.

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida
Ordo : Sapindales
Famili : Rutaceae
Genus : Citrus
Species : *Citrus aurantifolia*.

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 – 15a. golongan 8. 109b – 119b – 120b – 128b – 129b – 135b – 136b – 139b – 140b – 142b – 143b – 146a – 147b – 150a. familia 62. Rutaceae. 1a. 1. Citrus 1b – 3b. *Citrus aurantifolia*

Deskripsi :

Habitus : Perdu, tinggi dapat mencapai 3 m.

Batang : Percabangan monopodial, berkayu, bulat, berduri tajam, putih kehijauan.

Daun : Helaian daun elips, pangkal membulat, ujung tumpul dan melekuk ke dalam sedikit, tepi beringgit, panjang 4,2 – 5,1 cm, lebar 2,5 – 2,9 cm, tulang daun menyirip, seperti kertas, permukaan atas hijau tua mengkilat, permukaan bawah hijau muda. Tangkai daun bersayap sempit, sayap beringgit melekuk ke dalam.

Bunga : Bunga majemuk, malai, terdapat di ketiak daun atau di ujung batang, daun kelopak 5, mahkota putih, benangsari kuning, bakal buah bulat, hijau kekuningan, tangkai putik silindris, putih kekuningan, kepala putik bulat, tebal, kuning, daun mahkota 5, putih, berbau harum.

Buah : Buah berbentuk bola, berdaging, permukaan licin, waktu muda hijau, tua kuning, daging buah kuning kehijauan.

Biji : Biji bulat telur, putih.

Akar : Akar tunggang.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 5 Desember 2021

Penanggung jawab
Determinan Tumbuhan
Lab. Sistematika Tumbuhan



Dra. Dewi Sulistyawati. M.Sc.

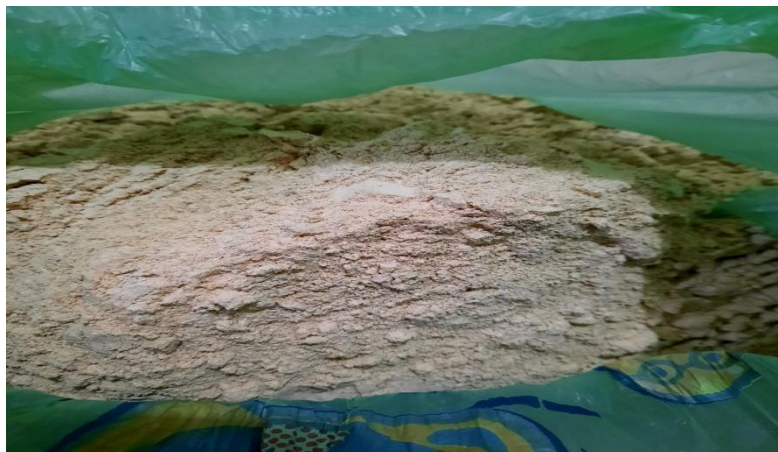
Lampiran 2. Pengolahan serbuk simplisia



Kulit jeruk nipis yang dikering



Serbuk kasar



Serbuk halus

Lampiran 3. Pembuatan ekstrak dengan metode remaserasi



Proses maserasi



Pengayakan dengan ayakan No.40

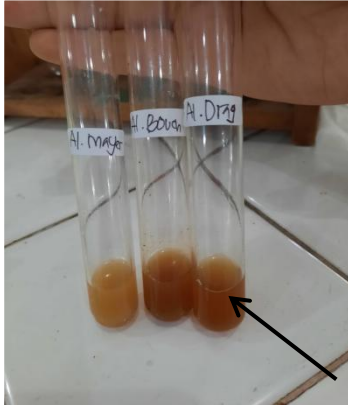
Lampiran 4. Pembuatan ekstrak dengan *Rotary Evaporator*



Rotary Evaporator



Ekstrak kental etanol kulit jeruk nipis

Lampiran 5. Hasil uji identifikasi ekstrak

Alkohol (Dragendorff)



Bebas alkohol



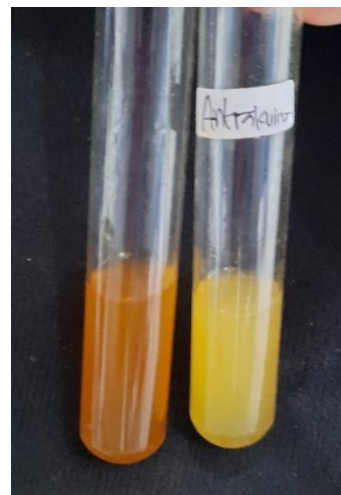
Flavonoid



Tanin



Saponin



Antrakoinon

Lampiran 6. Uji kadar air gravimetri



Oven



Desikator

Lampiran 7. Uji kadar air serbuk (destilasi)



Alat Destilasi



Volume akhir

Lampiran 8. Uji susut pengeringan

Replikasi 1



Replikasi 2



Replikasi 3

Lampiran 9. Perhitungan rendemen

Berat segar (g)	Berat kering (g)	Rendemen (%)
3500	1100	31,42

$$\begin{aligned} \text{\% rendemen simplisia kering} &= \frac{1100}{3500} \times 100\% \\ &= 31,42\% \end{aligned}$$

Berat kering (g)	Berat serbuk (g)	Rendemen (%)
1100	1000	90,90

$$\begin{aligned} \text{\% rendemen berat kering} &= \frac{1000}{1100} \times 100\% \\ &= 90,90\% \end{aligned}$$

Serbuk kulit jeruk nipis (g)	Ekstrak kental (g)	Rendemen (%)
700	120	17,14

$$\begin{aligned} \text{\% rendemen ekstrak kental} &= \frac{120}{700} \times 100\% \\ &= 17,14\% \end{aligned}$$

Lampiran 10. Perhitungan

Susut pengeringan serbuk

Replikasi	Berat serbuk (g)	Susut pengeringan (%)
1	2,0	6,1
2	2,0	6,9
3	2,0	7,0
Rata-rata ±SD		6,6±0,5

Susut pengeringan serbuk kulit jeruk nipis:
$$\frac{6,1 + 6,9 + 7}{3} = \frac{20}{3} = 6,6\%$$

Kadar air serbuk (destilasi)

Replikasi	Berat serbuk (g)	Volume air (mL)	Kadar air (%b/v)
1	10	0,4	4
2	10	0,5	5
3	10	0,6	6
Rata-rata ±SD			5±1

Kadar air serbuk :
$$\frac{\text{Volume air (mL)}}{\text{Berat serbuk (g)}} \times 100\%$$

Replikasi 1 :
$$\frac{0,4}{10} \times 100\% = 4\%$$

Replikasi 2 :
$$\frac{0,5}{10} \times 100\% = 5\%$$

Replikasi 3 :
$$\frac{0,6}{10} \times 100\% = 6\%$$

Rata-rata kadar air srrbuk :
$$\frac{4\% + 5\% + 6\%}{3} = 5\%$$

Kadar air ekstrak

Replikasi	Berat cawan kosong	Berat cawan + ekstrak	Berat ekstrak (g)	Berat cawan+ ekstrak setelah di oven	Bobot akhir	Kadar air %
1	24,3167	26,5171	2,0271	26,3272	1,899	6,31
2	24,1662	26,4266	2,0164	26,2312	1,954	3,09
3	24,5216	26,7166	2,0104	26,5243	1,923	4,34
Rata - rata ± SD				4,58±1,6		

Kadar air ekstrak : $\frac{\text{Berat sebelum pengeringan} - \text{berat setelah pengeringan}}{\text{Berat sebelum pengeringan}} \times$

100%

$$\text{Replikasi 1} : \frac{2,0271 - 1,899}{2,0271} \times 100\% = 6,31\%$$

$$\text{Replikasi 2} : \frac{2,0164 - 1,954}{2,0164} \times 100\% = 3,09\%$$

$$\text{Replikasi 3} : \frac{2,0104 - 1,923}{2,0104} \times 100\% = 4,34\%$$

$$\text{Rata - rata kadar air ekstrak} : \frac{6,31\% + 3,09\% + 4,34\%}{3} = 4,58\%$$

Lampiran 11. Proses pembuatan sediaan sabun cair cuci tangan



Penimbangan bahan



Proses pembuatan sabun cair cuci tangan dengan metode pemanasan



Proses pembuatan sediaan sabun cair cuci tangan dengan metode alat *Stirrer*

Lampiran 12. Hasil sediaan sabun cair cuci tangan



Hasil sabun cair cuci tangan



Kontrol positif sabun cair cuci tangan

Lampiran 13. Hasil uji pH sediaan sabun cair cuci tangan



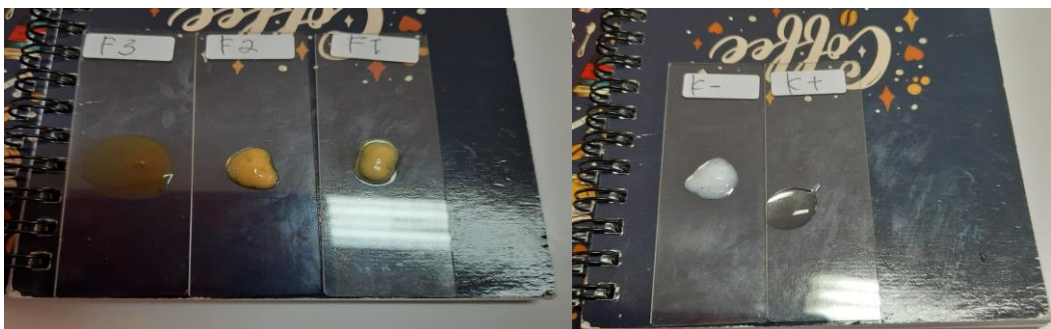
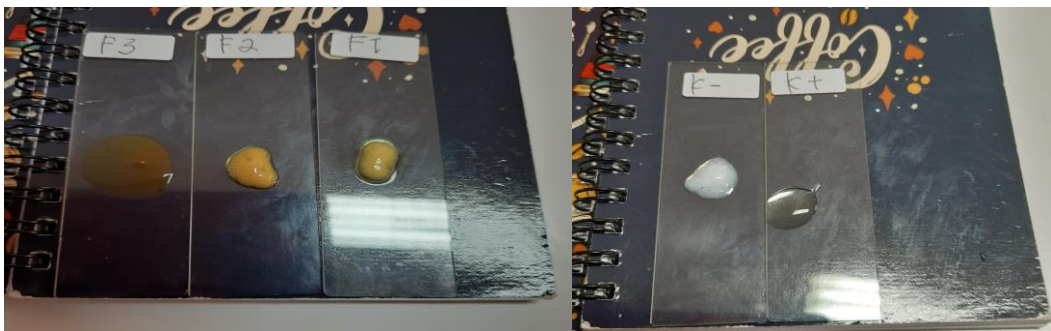
Replikasi 1



Replikasi 2



Replikasi 3

Lampiran 14. Uji homogenitas sabun cair cuci tangan

Lampiran 15. Hasil uji berat jenis sabun cair cuci tangan



Piknometer kosong



Piknometer berisi aquadets



Piknometer berisi formula

Perhitungan :

$$\text{Berat jenis} : \frac{\text{Berat piknometer sediaan} - \text{berat piknometer kosong}}{\text{Berat piknometer Aquadets} - \text{berat piknometer kosong}}$$

$$\text{Replikasi 1} : \frac{79,4051 \text{ g} - 29,3626 \text{ g}}{78,8893 \text{ g} - 29,3626 \text{ g}} = 1,0104 \text{ gram}$$

$$\text{Replikasi 2} : \frac{79,7733 \text{ g} - 29,2846 \text{ g}}{78,9580 \text{ g} - 29,2846 \text{ g}} = 1,0164 \text{ gram}$$

$$\text{Replikasi 3} : \frac{79,5920 \text{ g} - 29,2215 \text{ g}}{78,2266 \text{ g} - 29,2215 \text{ g}} = 1,01278 \text{ gram}$$

Lampiran 16. Hasil uji viskositas sabun cair cuci tangan



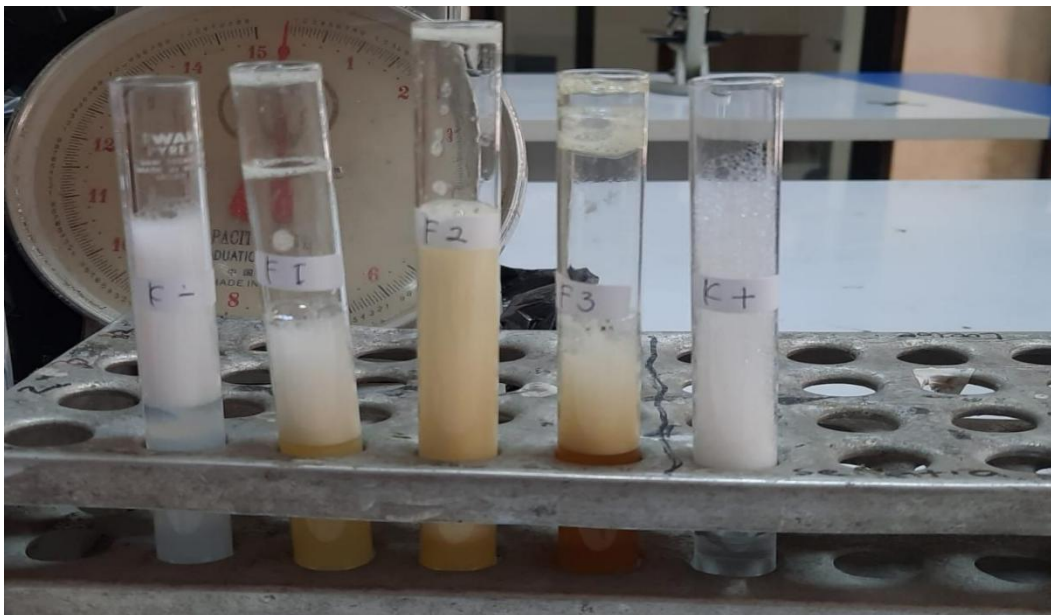
Lampiran 17. Hasil uji tinggi busa sabun cair cuci tangan



Menit ke-0



Menit ke-5



Lampiran 18. Hasil uji stabilitas *freeze thaw*

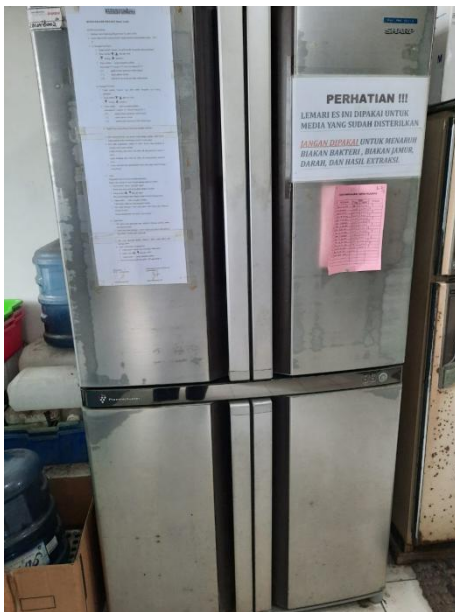


Lampiran 19. Alat uji identifikasi bakteri

Auto clave



Indikator



Lemari es



Laminar Air Flow

Lampiran 20. Bahan identifikasi bakteri



Perbandingan suspensi dan Mc Farland 0,5



Pembuatan suspensi bakteri

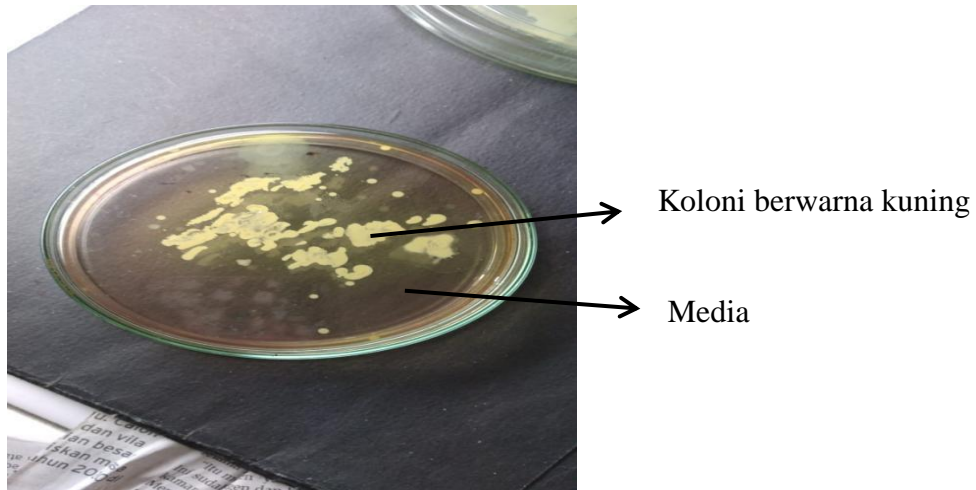


Biakan bakteri *Staphylococcus aureus*

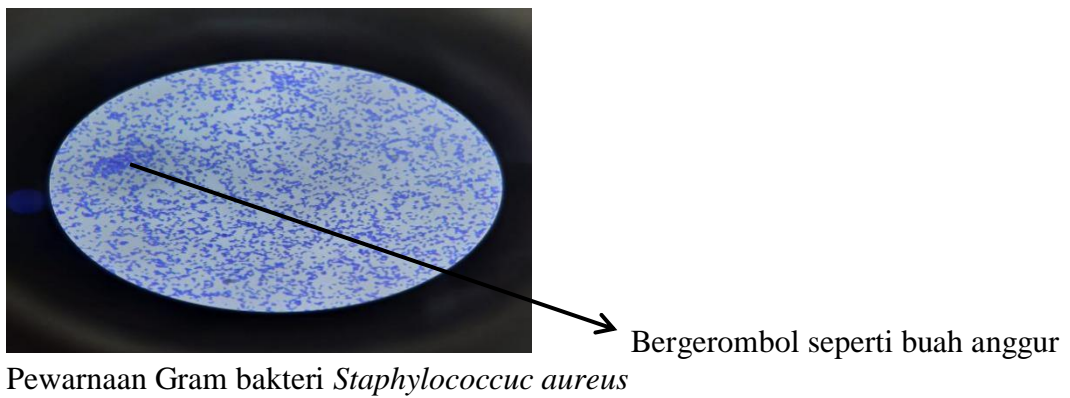
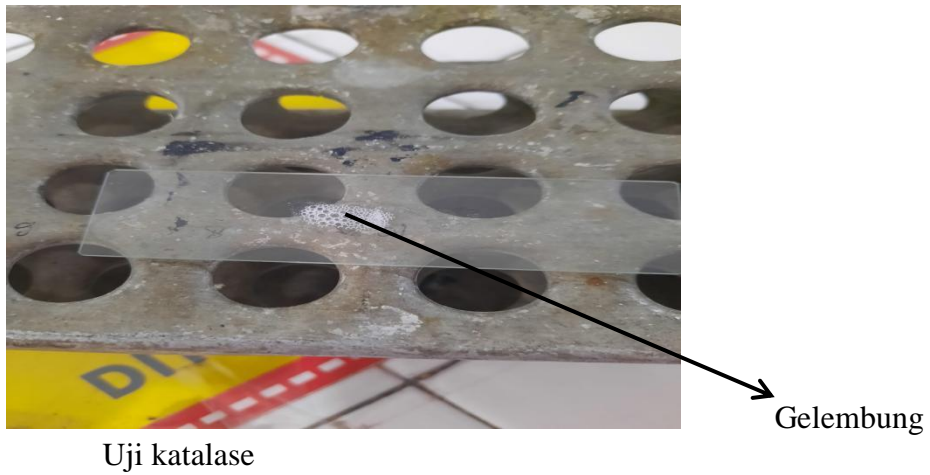


Cairan pewarnaan Gram

Lampiran 21. Hasil identifikasi bakteri



Identifikasi morfologi koloni bakteri *Staphylococcus aureus*



Lampiran 22. Hasil uji metode difusi sumuran

Lampiran 23. Uji panelis



Formulir Uji Panelis

Uji Panelis

Pilihlah sajian cair yang anda sukai sampai tidak ada perbedaan antara
sukanya, warna, dan aroma dari sajian cair

No	Nama	Umur	Formula			
			1	2	3	4
1	Rena Pribadi	20	4	4	4	3
2	Melita Pribadi	21	3	3	3	3
3	Umi Pribadi	22	3	4	4	3
4	Frida Pribadi	22	4	4	4	3
5	Ami Salasida P.	21	4	4	3	4
6	Milia Alfarizi	22	4	4	4	3
7	Rahmawati	20	4	3	3	2
8	Mary Azzahra	22	4	3	4	3
9	Mah Rizki	22	4	4	4	3
10	Rahma Rizki	21	4	3	4	4
11	Rizki Wahana	23	4	4	4	4
12	Rani Wahana	20	4	4	4	4
13	Stella Wahana	22	3	4	4	3
14	Anisa Fitriani	21	4	4	4	3
15	Keni Nisa I	22	4	4	3	3

Keterangan :

4 Sangat suka
3 Suka
2 Kurang suka
1 Tidak suka

Formula 1 : Sajian sajian cair caci tangan tepung alabadi 0%

Formula 2 : Sajian sajian cair caci tangan abstrak kulit jeruk nipis komposisi 3%

Formula 3 : Sajian sajian cair caci tangan abstrak kulit jeruk nipis komposisi 6%

Formula 4 : Sajian sajian cair caci tangan abstrak kulit jeruk nipis komposisi 9%

Lampiran 24. Data analisis uji viskositas

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	Kontrol Negatif	.175	3	.	1.000	3	1.000
	Formula 1	.314	3	.	.893	3	.363
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.276	3	.	.942	3	.537
	Kontrol Positif	.276	3	.	.942	3	.537

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas	Based on Mean	1.090	4	10	.413
	Based on Median	.503	4	10	.735
	Based on Median and with adjusted df	.503	4	6.386	.736
	Based on trimmed mean	1.044	4	10	.432

ANOVA

Viskositas					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	49.847	4	12.462	53.560	.000
Within Groups	2.327	10	.233		
Total	52.173	14			

Multiple Comparisons

Dependent Variable: Viskositas
Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Negatif	Formula 1	.70000	.39384	.435	-.5962	1.9962
	Formula 2	-.33333	.39384	.910	-1.6295	.9628
	Formula 3	.90000	.39384	.226	-.3962	2.1962
	Kontrol Positif	-4.10000	.39384	.000	-5.3962	-2.8038
Formula 1	Kontrol Negatif	-.70000	.39384	.435	-1.9962	.5962
	Formula 2	-1.03333	.39384	.139	-2.3295	.2628
	Formula 3	.20000	.39384	.985	-1.0962	1.4962
	Kontrol Positif	-4.80000	.39384	.000	-6.0962	-3.5038
Formula 2	Kontrol Negatif	.33333	.39384	.910	-.9628	1.6295
	Formula 1	1.03333	.39384	.139	-.2628	2.3295
	Formula 3	1.23333	.39384	.064	-.0628	2.5295
	Kontrol Positif	-3.76667	.39384	.000	-5.0628	-2.4705
Formula 3	Kontrol Negatif	-.90000	.39384	.226	-2.1962	.3962
	Formula 1	-.20000	.39384	.985	-1.4962	1.0962
	Formula 2	-1.23333	.39384	.064	-2.5295	.0628
	Kontrol Positif	-5.00000	.39384	.000	-6.2962	-3.7038
Kontrol Positif	Kontrol Negatif	4.10000	.39384	.000	2.8038	5.3962
	Formula 1	4.80000	.39384	.000	3.5038	6.0962
	Formula 2	3.76667	.39384	.000	2.4705	5.0628
	Formula 3	5.00000	.39384	.000	3.7038	6.2962

*. The mean difference is significant at the 0.05 level.

Tukey HSD^a

Viskositas

Formula	N	Subset for alpha = 0.05	
		1	2
Formula 3	3	4.6000	
Formula 1	3	4.8000	
Kontrol Negatif	3	5.5000	
Formula 2	3	5.8333	
Kontrol Positif	3		9.6000
Sig.		.064	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 25. Data analisis uji tinggi busa

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
UjiTinggiBusa	Kontrol Negatif	.304	3	.	.907	3	.407
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.219	3	.	.987	3	.780
	Kontrol Positif	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

Test Statistics^{a,b}

UjiTinggiBusa	
Kruskal-Wallis H	12.657
df	4
Asymp. Sig.	.013

a. Kruskal Wallis Test

b. Grouping Variable: Formula

Ranks

	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Kontrol Negatif	3	3.33	10.00
	Formula 1	3	3.67	11.00
	Total	6		

Test Statistics^a

UjiTinggiBusa	
Mann-Whitney U	4.000
Wilcoxon W	10.000
Z	-.232
Asymp. Sig. (2-tailed)	.817
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

Ranks

	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Kontrol Negatif	3	2.00	6.00
	Formula 2	3	5.00	15.00
	Total	6		

Test Statistics^a

UjiTinggiBusa	
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Kontrol Negatif	3	2.00	6.00
	Formula 3	3	5.00	15.00
	Total	6		

Test Statistics^a

UjiTinggiBusa	
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Kontrol Negatif	3	2.00	6.00
	Kontrol Positif	3	5.00	15.00
	Total	6		

Test Statistics^a

UjiTinggiBusa	
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Formula 1	3	2.00	6.00
	Formula 2	3	5.00	15.00
	Total	6		

Test Statistics^a

		UjiTinggiBusa
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.993
Asymp. Sig. (2-tailed)		.046
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

- a. Grouping Variable: Formula
b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Formula 1	3	2.00	6.00
	Formula 3	3	5.00	15.00
	Total	6		

Test Statistics^a

		UjiTinggiBusa
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.993
Asymp. Sig. (2-tailed)		.046
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

- a. Grouping Variable: Formula
b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Formula 1	3	2.00	6.00
	Kontrol Positif	3	5.00	15.00
	Total	6		

Test Statistics^a

		UjiTinggiBusa
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.993
Asymp. Sig. (2-tailed)		.046
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

- a. Grouping Variable: Formula
b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Formula 2	3	2.33	7.00
	Formula 3	3	4.67	14.00
	Total	6		

Test Statistics^a

		UjiTinggiBusa
Mann-Whitney U		1.000
Wilcoxon W		7.000
Z		-1.528
Asymp. Sig. (2-tailed)		.127
Exact Sig. [2*(1-tailed Sig.)]		.200 ^b

- a. Grouping Variable: Formula
b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Formula 2	3	2.00	6.00
	Kontrol Positif	3	5.00	15.00
	Total	6		

Test Statistics^a

		UjiTinggiBusa
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		.050
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

- a. Grouping Variable: Formula
b. Not corrected for ties.

		Ranks		
	Formula	N	Mean Rank	Sum of Ranks
UjiTinggiBusa	Formula 3	3	2.00	6.00
	Kontrol Positif	3	5.00	15.00
	Total	6		

Test Statistics^a

		UjiTinggiBusa
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		.050
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

- a. Grouping Variable: Formula
b. Not corrected for ties.

Lampiran 26. Data analisis bobot jenis

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Bobot_Jenis	Kontrol Negatif	.176	3	.	1.000	3	.978
	Formula 1	.245	3	.	.971	3	.672
	Formula 2	.370	3	.	.786	3	.081
	Formula 3	.247	3	.	.969	3	.661
	Kontrol Positif	.260	3	.	.958	3	.605

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene	df1	df2	Sig.
		Statistic			
Bobot_Jenis	Based on Mean	2.317	4	10	.128
	Based on Median	1.537	4	10	.264
	Based on Median and with adjusted df	1.537	4	5.206	.317
	Based on trimmed mean	2.270	4	10	.134

ANOVA

Bobot_Jenis					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.076	4	.019	4.715	.021
Within Groups	.040	10	.004		
Total	.116	14			

Multiple Comparisons

Dependent Variable: Bobot_Jenis

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Negatif	Formula 1	.11567	.05174	.242	-.0546	.2859
	Formula 2	.09333	.05174	.422	-.0769	.2636
	Formula 3	.20267	.05174	.019	.0324	.3729
	Kontrol Positif	.02833	.05174	.980	-.1419	.1986
Formula 1	Kontrol Negatif	-.11567	.05174	.242	-.2859	.0546
	Formula 2	-.02233	.05174	.992	-.1926	.1479
	Formula 3	.08700	.05174	.485	-.0833	.2573
	Kontrol Positif	-.08733	.05174	.481	-.2576	.0829
Formula 2	Kontrol Negatif	-.09333	.05174	.422	-.2636	.0769
	Formula 1	.02233	.05174	.992	-.1479	.1926
	Formula 3	.10933	.05174	.286	-.0609	.2796
	Kontrol Positif	-.06500	.05174	.721	-.2353	.1053
Formula 3	Kontrol Negatif	-.20267	.05174	.019	-.3729	-.0324
	Formula 1	-.08700	.05174	.485	-.2573	.0833
	Formula 2	-.10933	.05174	.286	-.2796	.0609
	Kontrol Positif	-.17433	.05174	.044	-.3446	-.0041
Kontrol Positif	Kontrol Negatif	-.02833	.05174	.980	-.1986	.1419
	Formula 1	.08733	.05174	.481	-.0829	.2576
	Formula 2	.06500	.05174	.721	-.1053	.2353
	Formula 3	.17433	.05174	.044	.0041	.3446

*. The mean difference is significant at the 0.05 level.

Tukey HSD^a

Bobot_Jenis

Formula	N	Subset for alpha = 0.05	
		1	2
Formula 3	3	10.1820	
Formula 1	3	10.2690	10.2690
Formula 2	3	10.2913	10.2913
Kontrol Positif	3		10.3563
Kontrol Negatif	3		10.3847
Sig.		.286	.242

Means for groups in homogeneous subsets are displayed.

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

Lampiran 27. Data analisis satabilitas viskositas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Viskositas_Sebelum	Kontrol Negatif	.175	3	.	1.000	3	1.000
	Formula 1	.314	3	.	.893	3	.363
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.276	3	.	.942	3	.537
Viskositas_Sesudah	Kontrol Negatif	.175	3	.	1.000	3	1.000
	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene			
		Statistic	df1	df2	Sig.
Viskositas Sebelum	Based on Mean	1.206	3	8	.368
	Based on Median	.573	3	8	.648
	Based on Median and with adjusted df	.573	3	5.140	.656
	Based on trimmed mean	1.158	3	8	.384
Viskositas Sesudah	Based on Mean	.000	3	8	1.000
	Based on Median	.000	3	8	1.000
	Based on Median and with adjusted df	.000	3	8.000	1.000
	Based on trimmed mean	.000	3	8	1.000

ANOVA

		Sum of		Mean	F	Sig.
		Squares	df			
Viskositas Sebelum	Between Groups	3.030	3	1.010	3.910	.055
	Within Groups	2.067	8	.258		
	Total	5.097	11			
Viskositas Sesudah	Between Groups	5.903	3	1.968	196.750	.000
	Within Groups	.080	8	.010		
	Total	5.983	11			

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Viskositas Sebelum	Kontrol Negatif	Formula 1	.70000	.41500	.389	-.6290	2.0290
		Formula 2	-.33333	.41500	.851	-1.6623	.9956
		Formula 3	.90000	.41500	.211	-.4290	2.2290
	Formula 1	Kontrol Negatif	-.70000	.41500	.389	-2.0290	.6290
		Formula 2	-1.03333	.41500	.136	-2.3623	.2956
		Formula 3	.20000	.41500	.961	-1.1290	1.5290
	Formula 2	Kontrol Negatif	.33333	.41500	.851	-.9956	1.6623
		Formula 1	1.03333	.41500	.136	-.2956	2.3623
		Formula 3	1.23333	.41500	.069	-.0956	2.5623
	Formula 3	Kontrol Negatif	-.90000	.41500	.211	-2.2290	.4290
		Formula 1	-.20000	.41500	.961	-1.5290	1.1290
		Formula 2	-1.23333	.41500	.069	-2.5623	.0956
Viskositas Sesudah	Kontrol Negatif	Formula 1	1.00000*	.08165	.000	.7385	1.2615
		Formula 2	-.20000	.08165	.144	-.4615	.0615
		Formula 3	1.50000*	.08165	.000	1.2385	1.7615
	Formula 1	Kontrol Negatif	-1.00000*	.08165	.000	-1.2615	-.7385
		Formula 2	-1.20000*	.08165	.000	-1.4615	-.9385
		Formula 3	.50000	.08165	.001	.2385	.7615
	Formula 2	Kontrol Negatif	.20000	.08165	.144	-.0615	.4615
		Formula 1	1.20000*	.08165	.000	.9385	1.4615
		Formula 3	1.70000*	.08165	.000	1.4385	1.9615
	Formula 3	Kontrol Negatif	-1.50000*	.08165	.000	-1.7615	-1.2385
		Formula 1	-.50000	.08165	.001	-.7615	-.2385
		Formula 2	-1.70000*	.08165	.000	-1.9615	-1.4385

*. The mean difference is significant at the 0.05 level.

Viskositas_Sebelum

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	
Formula 3	3	4.6000	
Formula 1	3	4.8000	
Kontrol Negatif	3	5.5000	
Formula 2	3	5.8333	
Sig.			.069

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Viskositas_Sesudah

Tukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
Formula 3	3	4.3000		
Formula 1	3		4.8000	
Kontrol Negatif	3			5.8000
Formula 2	3			6.0000
Sig.		1.000	1.000	.144

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 28. Data analisis zona hambat antibakteri

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Zona_Hambat	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.232	3	.	.980	3	.726
	Formula 3	.219	3	.	.987	3	.780
	Kontrol Positif	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Zona_Hambat		Levene Statistic	df1	df2	Sig.
		Based on Mean	2.900	3	8
	Based on Median	1.353	3	8	.325
	Based on Median and with adjusted df	1.353	3	4.118	.374
	Based on trimmed mean	2.781	3	8	.110

ANOVA

Zona_Hambat	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	117.532	3	39.177	93.140	.000
Within Groups	3.365	8	.421		
Total	120.897	11			

Multiple Comparisons

Dependent Variable: Zona_Hambat

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-2.91667*	.52954	.003	-4.6125	-1.2209
	Formula 3	-5.88333*	.52954	.000	-7.5791	-4.1875
	Kontrol Positif	-8.33333*	.52954	.000	-10.0291	-6.6375
Formula 2	Formula 1	2.91667*	.52954	.003	1.2209	4.6125
	Formula 3	-2.96667*	.52954	.002	-4.6625	-1.2709
	Kontrol Positif	-5.41667*	.52954	.000	-7.1125	-3.7209
Formula 3	Formula 1	5.88333*	.52954	.000	4.1875	7.5791
	Formula 2	2.96667*	.52954	.002	1.2709	4.6625
	Kontrol Positif	-2.45000*	.52954	.007	-4.1458	-.7542
Kontrol Positif	Formula 1	8.33333*	.52954	.000	6.6375	10.0291
	Formula 2	5.41667*	.52954	.000	3.7209	7.1125
	Formula 3	2.45000*	.52954	.007	.7542	4.1458

*. The mean difference is significant at the 0.05 level.

Tukey HSD^a

Zona_Hambat

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
Formula 1	3	10.5000			
Formula 2	3		13.4167		
Formula 3	3			16.3833	
Kontrol Positif	3				18.8333
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 29. Data analisis uji panelis

Tests of Normality							
	Responden	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji_Panelis	1	.385	3	.	.750	3	.000
	2	.	3	.	.	3	.
	3	.385	3	.	.750	3	.000
	4	.385	3	.	.750	3	.000
	5	.385	3	.	.750	3	.000
	6	.385	3	.	.750	3	.000
	7	.385	3	.	.750	3	.000
	8	.385	3	.	.750	3	.000
	9	.385	3	.	.750	3	.000
	10	.385	3	.	.750	3	.000
	11	.	3	.	.	3	.
	12	.	3	.	.	3	.
	13	.385	3	.	.750	3	.000
	14	.385	3	.	.750	3	.000
	15	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Test Statistics^{a,b}

Uji_Panelis	
Kruskal-Wallis H	15.856
df	14
Asymp. Sig.	.322

a. Kruskal Wallis Test

b. Grouping Variable: Responden