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Lampiran 1. Determinasi Tanaman



UPT-LABORATORIUM

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Nomor : 315/DET/UPT-LAB/25.11.2021

Hal : Hasil determinasi tumbuhan

Lamp. : -

Nama Pemesan : Rena Febriani
 NIM : 24185534A
 Alamat : Program Studi S-1 Farmasi,
 Universitas Setia Budi, Surakarta
 Nama sampel : *Piper betle* L./ Sirih

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
 Super Divisi : Spermatophyta
 Divisi : Magnoliophyta
 Kelas : Magnoliopsida
 Ordo : Piperales
 Famili : Piperaceae
 Genus : Piper
 Species : *Piper betle* L.

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :

1a – 2b – 3b – 4b – 6b – 7b – 9a. golongan 4. 41b – 42b – 43b – 54b – 59b – 61b – 62b – 63a – 64a. familia 37. 1a. *Piper betle* L.

Deskripsi :

Habitus : Herba, tumbuh memanjat.
 Akar : Akar serabut.
 Batang : Batang segitiga, beralur.
 Daun : Daun tunggal, duduk daun berseling atau tersebar, herbaceus, daun penumpu cepat rontok dan meninggalkan tanda bekas berbentuk cincin. Helaian daun

bulat telur sampai memanjang, pangkal bentuk jantung, ujung meruncing, tulang daun menjari, panjang 4,5 – 5,7 cm, permukaan atas berwarna hijau tua, permukaan bawah hijau muda, berbau aromatis.

Bunga : Bunga berkelamin 1, berumah 1 atau 2. Bulir berdiri sendiri, di ujung dan berhadapan dengan daun. Daun pelindung bentuk lingkaran, bulat telur terbalik atau bulat telur memanjang, panjang lk 1 mm.

Buah : Buah buni dengan ujung bebas dan membulat.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 25 November 2021

Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati. M.Sc.

Lampiran 2. Perhitungan prosentase bobot kering terhadap bobot basah

Perhitungan persentase bobot kering terhadap bobot basah :

Berat Segar (g)	Bobot kering (g)	% rendemen
5000	1200	24%
$\frac{1200 \text{ g}}{5000 \text{ g}} \times 100\% = 24\%$		

Lampiran 3. Perhitungan presentase rendemen serbuk daun sirih

Berat Kering (g)	Bobot Serbuk (g)	% rendemen
1200	900	75%

Perhitungan persentase rendemen serbuk :

$$\frac{900 \text{ g}}{1200 \text{ g}} \times 100\% = 75\%$$

Lampiran 4. Perhitungan presentase kadar air (destilasi) serbuk daun sirih

Replikasi	Bobot serbuk (g)	Volume air (ml)	Kadar air (% b/v)
1	10	0,8	8
2	10	0,7	7
3	10	0,8	8
Rata-rata±SD			7,67±0,57

Perhitungan kadar air serbuk (Destilasi)

$$\text{Kadar air serbuk} : \frac{\text{Volume air (ml)}}{\text{Bobot serbuk}} \times 100\%$$

$$\text{Replikasi 1} : \frac{0,8 \text{ ml}}{10 \text{ g}} \times 100\% = 8\%$$

$$\text{Replikasi 2} : \frac{0,7 \text{ ml}}{10 \text{ g}} \times 100\% = 7\%$$

$$\text{Replikasi 3} : \frac{0,8 \text{ ml}}{10 \text{ g}} \times 100\% = 8\%$$

$$\text{Rata-rata} : \frac{8 + 7 + 8}{3} = 7,67\%$$

Lampiran 5. Perhitungan presentase rendemen ekstrak daun sirih

Sampel	Bobot serbuk (gram)	Bobot ekstrak (gram)	Rendemen (%)
Serbuk daun sirih	700	65	9,28%

Perhitungan persentase rendemen ekstrak :

$$\frac{65 \text{ g}}{700 \text{ g}} \times 100\% = 9,28\%$$

Lampiran 6. Perhitungan presentase kadar air (gravimetri) ekstrak daun sirih

Replikasi	Berat crush kosong	Berat crush + ekstrak	Berat ekstrak awal	Berat crush + ekstrak (setelah di oven)	Bobot ekstrak akhir (g)	Kadar air (%)
1	26,302	28,475	2.173	28,289	1,987	8,55
2	26,605	28,786	2.181	28,581	1,976	9,39
3	26,655	28,708	2.053	28,541	1,886	8,13
Rata - rata $\pm$ SD						8,67 $\pm$ 0,64

Perhitungan kadar air ekstrak

$$\text{Kadar air ekstrak: } \frac{\text{Berat sebelum pengeringan} - \text{berat setelah pengeringan (g)}}{\text{Berat sebelum pengeringan (g)}} \times 100\%$$

$$\text{Replikasi 1 : } \frac{2,173 \text{ g} - 1,987 \text{ g}}{2,173 \text{ g}} \times 100\% = 8,55\%$$

$$\text{Replikasi 2 : } \frac{2,181 \text{ g} - 1,976 \text{ g}}{2,181 \text{ g}} \times 100\% = 9,39\%$$

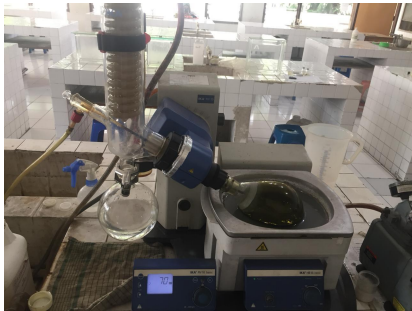
$$\text{Replikasi 3 : } \frac{2,053 \text{ g} - 1,886 \text{ g}}{2,053 \text{ g}} \times 100\% = 8,13\%$$

$$\text{Rata-rata : } \frac{8,55\% + 9,39\% + 8,13\%}{3} = 8,67\%$$

Lampiran 7. Penimbangan bahan pembuatan gel ekstrak daun sirih

1. - Ekstrak daun sirih 4% : $\frac{4g}{100g} \times 100\% = 4 \text{ gram}$
 - Ekstrak daun sirih 5% : $\frac{5g}{100g} \times 100\% = 5 \text{ gram}$
 - Ekstrak daun sirih 6% : $\frac{6g}{100g} \times 100\% = 6 \text{ gram}$
2. Karbopol : $\frac{0,7g}{100g} \times 100\% = 0,7 \text{ gram}$
3. Gliserin : $\frac{5g}{100g} \times 100\% = 5 \text{ gram}$
4. Propilenglikol : $\frac{12g}{100g} \times 100\% = 12 \text{ gram}$
5. TEA : $\frac{0,5g}{100g} \times 100\% = 0,5 \text{ gram}$
6. Metilparaben : $\frac{0,1g}{100g} \times 100\% = 0,1 \text{ gram}$
7. Aquadest add 100 gram :
 - Konsentrasi ekstrak daun sirih 4%
 $= 100 \text{ gram} - (4 + 0,7 + 5 + 12 + 0,5 + 0,1) \text{ gram}$
 $= 100 \text{ gram} - 22,3 \text{ gram} = 77,7 \text{ gram}$
 - Konsentrasi ekstrak daun sirih 5%
 $= 100 \text{ gram} - (5 + 0,7 + 5 + 12 + 0,5 + 0,1) \text{ gram}$
 $= 100 \text{ gram} - 23,3 \text{ gram} = 76,7 \text{ gram}$
 - Konsentrasi ekstrak daun sirih 6%
 $= 100 \text{ gram} - (6 + 0,7 + 5 + 12 + 0,5 + 0,1) \text{ gram}$
 $= 100 \text{ gram} - 24,3 \text{ gram} = 75,7 \text{ gram}$

Lampiran 8. Alat penelitian



Rotary Evaporator



Mouister Balance



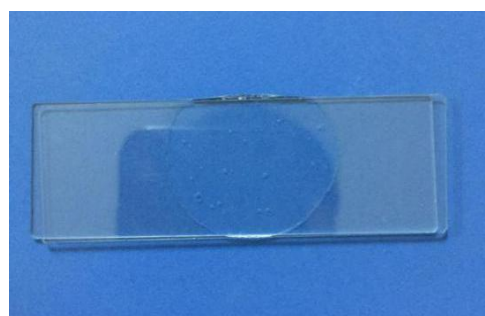
Sterling – bidwell (Destilasi)



pH meter



Viskometer Brookfield



Object glass



Uji daya lekat



Oven



Desikator



Timbangan analitik



Uji daya sebar



Mikroskop



Laminar air flow (LAF)



Autoclave



Incubator



Lemari pendingin

Lampiran 9. Gambar proses ekstraksi



Sampel segar



Pencucian sampel



Serbuk daun sirih



Proses ekstraksi



Proses pengentalan ekstrak



Ekstrak kental

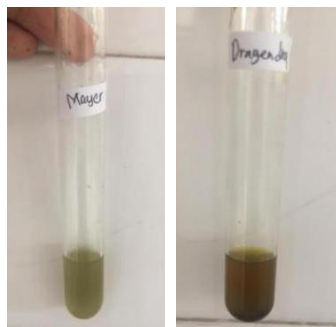
Lampiran 10. Gambar pengujian kandungan senyawa kimia dan uji bebas etanol ekstrak daun sirih



Bebas etanol



Uji flavonoid



Uji alkaloid



Uji saponin



Uji Tanin



Uji Triterpenoid



Uji Fenol

Lampiran 11. Sertifikat Bakteri *Staphylococcus epidermidis*

PRO – Technology

Laboratorium Uji Mikrobiologi
Jalan Cempaka Putih No.69 - Jakarta Pusat
Indonesia

SERTIFIKAT HASIL UJI

1. Bakteri : Stock Strain *Staphylococcus epidermidis* ATCC 12228
2. Nomor Uji Bakteri : Strain V. 1. 3.
3. Tanggal Uji bakteri : 5 – 10 November 2020

Uraian Hasil Uji

Strain V. 1. 3. Biakan Murni dari *Staphylococcus epidermidis* ATCC 12228

- I. Ciri-ciri koloni :
 1. Pewarnaan Gram : Sel bulat, kecil-kecil, menggerombol, berwarna ungu, termasuk Gram positif.
 2. Di tanam pada media Vogel Jhonson Agar : Koloni tidak berwarna hitam, disekitar koloni berwarna merah.
- II. Uji Fermentasi Karbohidrat dan Biokimia Penegasan

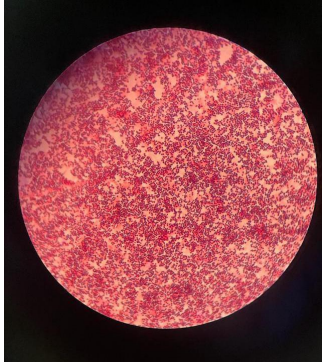
Uji Fermentasi Karbohidrat			Uji Fisiologis	
Glukosa	Asam (-)	Gas (-)	Katalase	(+) timbul gelembung gas
Laktosa	Asam (-)	Gas (-)	Koagulase (serum)	(-) tidak menggumpalkan serum
Maltosa	Asam (-)	Gas (-)	Oxidase	(-)
Sukrosa	Asam (-)	Gas (-)	Manitol	(-)

Catatan:

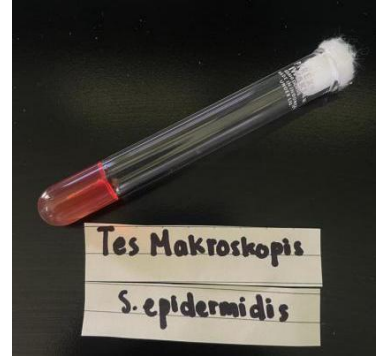
1. Hasil Uji ini hanya berlaku untuk contoh yang diuji.



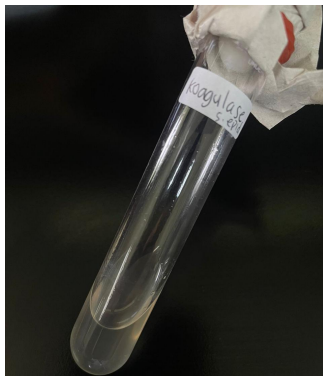
Lampiran 12. Identifikasi Bakteri *Staphylococcus epidermidis*



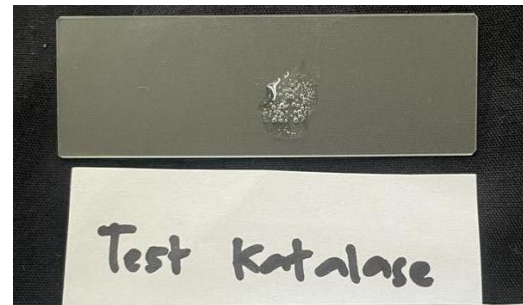
Identifikasi Pewarnaan Gram



Uji Makroskopis



Uji Koagulase



Uji Katalase

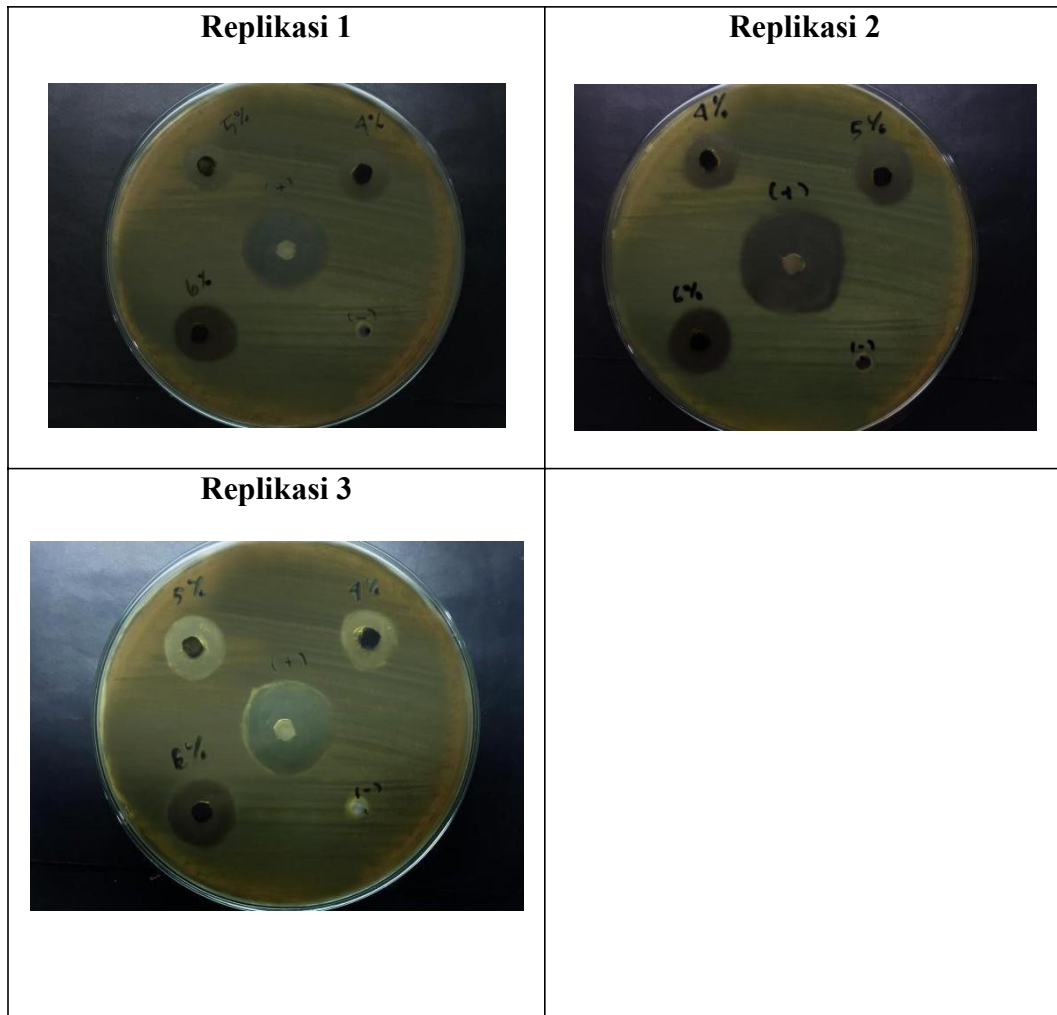


Suspensi bakteri



Sediaan gel

Lampiran 13. Hasil uji aktivitas antibakteri sediaan ekstrak daun sirih metode difusi sumuran



Keterangan :

Kontrol Negatif : Gel tanpa ekstrak

Kontrol Positif : Gel Mediklin 1%

F1 : Gel ekstrak daun sirih 4%

F2 : Gel ekstrak daun sirih 5%

F3 : Gel ekstrak daun sirih 6%

Lampiran 14. Hasil analisis data mutu fisik viskositas sediaan gel ekstrak daun sirih

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji Viskositas	Kontrol negatif	,385	3	.	,750	3	,000
	F1	,385	3	.	,750	3	,000
	F2	,385	3	.	,750	3	,000
	F3	,385	3	.	,750	3	,000

a. Lilliefors Significance Correction

Test Statistics^{a,b}

Uji Viskositas	
Kruskal-Wallis H	9,857
df	3
Asymp. Sig.	,020

a. Kruskal Wallis Test

b. Grouping Variable: Formula

Ranks

	Formula	N	Mean Rank	Sum of Ranks
Uji Viskositas	Kontrol negatif	3	5,00	15,00
	F2	3	2,00	6,00
	Total	6		

Test Statistics^a

Uji Viskositas	
Mann-Whitney U	,000
Wilcoxon W	6,000
Z	-2,023
Asymp. Sig. (2-tailed)	,043
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
Uji Viskositas	Kontrol negatif	3	5,00	15,00
	F4	3	2,00	6,00
	Total	6		

Test Statistics^a

Uji Viskositas	
Mann-Whitney U	,000
Wilcoxon W	6,000
Z	-2,023
Asymp. Sig. (2-tailed)	,043
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
Uji Viskositas	F2	3	4,67	14,00
	F3	3	2,33	7,00
	Total	6		

Test Statistics^a

Uji Viskositas	
Mann-Whitney U	1,000
Wilcoxon W	7,000
Z	-1,650
Asymp. Sig. (2-tailed)	,099
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
Uji Viskositas	F2	3	5,00	15,00
	F4	3	2,00	6,00
	Total	6		

Test Statistics^a

Uji Viskositas	
Mann-Whitney U	,000
Wilcoxon W	6,000
Z	-2,023
Asymp. Sig. (2-tailed)	,043
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
Uji Viskositas	F3	3	4,67	14,00
	F4	3	2,33	7,00
	Total	6		

Test Statistics^a

Uji Viskositas	
Mann-Whitney U	1,000
Wilcoxon W	7,000
Z	-1,650
Asymp. Sig. (2-tailed)	,099
Exact Sig. [2*(1-tailed Sig.)]	,200 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

Lampiran 15. Hasil analisis data mutu fisik pH sediaan gel ekstrak daun sirih

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji_pH	Kontrol Negatif	.292	3	.	.923	3	.463
	Formula 1	.211	3	.	.991	3	.817
	Formula 2	.269	3	.	.949	3	.567
	Formula 3	.285	3	.	.932	3	.497

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Uji_pH	Based on Mean	.284	3	8	.836
	Based on Median	.073	3	8	.973
	Based on Median and with adjusted df	.073	3	6.941	.972
	Based on trimmed mean	.262	3	8	.851

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Uji_pH	Between Groups	.132	3	.044	10.905	.003
	Within Groups	.032	8	.004		
	Total	.165	11			

Multiple Comparisons

Dependent Variable: Uji_pH
Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Negatif	Formula 1	.22333*	.05196	.011	.0569	.3897
	Formula 2	.25667*	.05196	.005	.0903	.4231
	Formula 3	.24333*	.05196	.007	.0769	.4097
Formula 1	Kontrol Negatif	-.22333*	.05196	.011	-.3897	-.0569
	Formula 2	.03333	.05196	.916	-.1331	.1997
	Formula 3	.02000	.05196	.979	-.1464	.1864
Formula 2	Kontrol Negatif	-.25667*	.05196	.005	-.4231	-.0903
	Formula 1	-.03333	.05196	.916	-.1997	.1331
	Formula 3	-.01333	.05196	.994	-.1797	.1531
Formula 3	Kontrol Negatif	-.24333*	.05196	.007	-.4097	-.0769
	Formula 1	-.02000	.05196	.979	-.1864	.1464
	Formula 2	.01333	.05196	.994	-.1531	.1797

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

Uji_pH

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
Formula 2	3	5.6533	
Formula 3	3	5.6667	
Formula 1	3	5.6867	
Kontrol Negatif	3		5.9100
Sig.		.916	1.000

Means for groups in homogeneous subsets are displayed.

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

Lampiran 16. Hasil analisis data mutu fisik daya sebar sediaan gel ekstrak daun sirih

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
UjiDayaSebar	Kontrolnegatif:Beban50"	,175	3	.	1,000	3	1,000
	Kontrolnegatif"Beban100"	,175	3	.	1,000	3	1,000
	Kontrolnegatif"Beban150"	,175	3	.	1,000	3	1,000
	Kontrolnegatif"Beban200"	,175	3	.	1,000	3	1,000
	F1"Beban50"	,175	3	.	1,000	3	1,000
	F1"Beban100"	,175	3	.	1,000	3	1,000
	F1"Beban150"	,253	3	.	,964	3	,637
	F1"Beban200"	,253	3	.	,964	3	,637
	F2"Beban50"	,175	3	.	1,000	3	1,000
	F2"Beban100"	,175	3	.	1,000	3	1,000
	F2"Beban150"	,175	3	.	1,000	3	1,000
	F2"Beban200"	,253	3	.	,964	3	,637
	F3"Beban50"	,175	3	.	1,000	3	1,000
	F3"Beban100"	,175	3	.	1,000	3	1,000
	F3"Beban150"	,175	3	.	1,000	3	1,000
	F3"Beban200"	,175	3	.	1,000	3	1,000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
UjiDayaSebar	Based on Mean	,372	15	32	,977
	Based on Median	,232	15	32	,998
	Based on Median and with adjusted df	,232	15	22,727	,997
	Based on trimmed mean	,363	15	32	,980

ANOVA

UjiDayaSebar					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11,435	15	,762	53,031	,000
Within Groups	,460	32	,014		
Total	11,895	47			

Multiple Comparisons

Dependent Variable: UjiDayaSebar
Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrolnegatif: Beban50"	Kontrolnegatif"Beban100"	-,30000	,09789	,199	-,6630	,0630
	Kontrolnegatif"Beban150"	-,70000	,09789	,000	-1,0630	-,3370
	Kontrolnegatif"Beban200"	-1,00000	,09789	,000	-1,3630	-,6370
	F1"Beban50"	-,20000	,09789	,785	-,5630	,1630
	F1"Beban100"	-,50000	,09789	,001	-,8630	-,1370
	F1"Beban150"	-,96667	,09789	,000	-1,3297	-,6037
	F1"Beban200"	-1,33333	,09789	,000	-1,6963	-,9703
	F2"Beban50"	-,50000	,09789	,001	-,8630	-,1370
	F2"Beban100"	-,80000	,09789	,000	-1,1630	-,4370
	F2"Beban150"	-1,20000	,09789	,000	-1,5630	-,8370
	F2"Beban200"	-1,56667	,09789	,000	-1,9297	-1,2037
	F3"Beban50"	-,60000	,09789	,000	-,9630	-,2370
	F3"Beban100"	-1,00000	,09789	,000	-1,3630	-,6370
	F3"Beban150"	-1,30000	,09789	,000	-1,6630	-,9370
	F3"Beban200"	-1,80000	,09789	,000	-2,1630	-1,4370
Kontrolnegatif"B eban100"	Kontrolnegatif:Beban50"	,30000	,09789	,199	-,0630	,6630
	Kontrolnegatif"Beban150"	-,40000	,09789	,020	-,7630	-,0370
	Kontrolnegatif"Beban200"	-,70000	,09789	,000	-1,0630	-,3370
	F1"Beban50"	,10000	,09789	,999	-,2630	,4630
	F1"Beban100"	-,20000	,09789	,785	-,5630	,1630
	F1"Beban150"	-,66667	,09789	,000	-1,0297	-,3037
	F1"Beban200"	-1,03333	,09789	,000	-1,3963	-,6703
	F2"Beban50"	-,20000	,09789	,785	-,5630	,1630
	F2"Beban100"	-,50000	,09789	,001	-,8630	-,1370
	F2"Beban150"	-,90000	,09789	,000	-1,2630	-,5370
	F2"Beban200"	-1,26667	,09789	,000	-1,6297	-,9037
	F3"Beban50"	-,30000	,09789	,199	-,6630	,0630
	F3"Beban100"	-,70000	,09789	,000	-1,0630	-,3370
	F3"Beban150"	-1,00000	,09789	,000	-1,3630	-,6370
	F3"Beban200"	-1,50000	,09789	,000	-1,8630	-1,1370
Kontrolnegatif"B eban150"	Kontrolnegatif:Beban50"	,70000	,09789	,000	,3370	1,0630
	Kontrolnegatif"Beban100"	,40000	,09789	,020	,0370	,7630
	Kontrolnegatif"Beban200"	-,30000	,09789	,199	-,6630	,0630
	F1"Beban50"	,50000	,09789	,001	,1370	,8630
	F1"Beban100"	,20000	,09789	,785	-,1630	,5630
	F1"Beban150"	-,26667	,09789	,359	-,6297	,0963
	F1"Beban200"	-,63333	,09789	,000	-,9963	-,2703
	F2"Beban50"	,20000	,09789	,785	-,1630	,5630
	F2"Beban100"	-,10000	,09789	,999	-,4630	,2630
	F2"Beban150"	-,50000	,09789	,001	-,8630	-,1370
	F2"Beban200"	-,86667	,09789	,000	-1,2297	-,5037
	F3"Beban50"	,10000	,09789	,999	-,2630	,4630
	F3"Beban100"	-,30000	,09789	,199	-,6630	,0630
	F3"Beban150"	-,60000	,09789	,000	-,9630	-,2370
	F3"Beban200"	-1,10000	,09789	,000	-1,4630	-,7370
Kontrolnegatif"B eban200"	Kontrolnegatif:Beban50"	1,00000	,09789	,000	,6370	1,3630
	Kontrolnegatif"Beban100"	,70000	,09789	,000	,3370	1,0630
	Kontrolnegatif"Beban150"	,30000	,09789	,199	-,0630	,6630
	F1"Beban50"	,80000	,09789	,000	,4370	1,1630
	F1"Beban100"	,50000	,09789	,001	,1370	,8630

	F1"Beban150"	,03333	,09789	1,000	-,3297	,3963
	F1"Beban200"	-,33333	,09789	,099	-,6963	,0297
	F2"Beban50"	,50000	,09789	,001	,1370	,8630
	F2"Beban100"	,20000	,09789	,785	-,1630	,5630
	F2"Beban150"	-,20000	,09789	,785	-,5630	,1630
	F2"Beban200"	-,56667	,09789	,000	-,9297	-,2037
	F3"Beban50"	,40000	,09789	,020	,0370	,7630
	F3"Beban100"	,00000	,09789	1,000	-,3630	,3630
	F3"Beban150"	-,30000	,09789	,199	-,6630	,0630
	F3"Beban200"	-,80000	,09789	,000	-1,1630	-,4370
F1"Beban50"	Kontrolnegatif:Beban50"	,20000	,09789	,785	-,1630	,5630
	Kontrolnegatif"Beban100"	-,10000	,09789	,999	-,4630	,2630
	Kontrolnegatif"Beban150"	-,50000	,09789	,001	-,8630	-,1370
	Kontrolnegatif"Beban200"	-,80000	,09789	,000	-1,1630	-,4370
	F1"Beban100"	-,30000	,09789	,199	-,6630	,0630
	F1"Beban150"	-,76667	,09789	,000	-1,1297	-,4037
	F1"Beban200"	-1,13333	,09789	,000	-1,4963	-,7703
	F2"Beban50"	-,30000	,09789	,199	-,6630	,0630
	F2"Beban100"	-,60000	,09789	,000	-,9630	-,2370
	F2"Beban150"	-1,00000	,09789	,000	-1,3630	-,6370
	F2"Beban200"	-1,36667	,09789	,000	-1,7297	-1,0037
	F3"Beban50"	-,40000	,09789	,020	-,7630	-,0370
	F3"Beban100"	-,80000	,09789	,000	-1,1630	-,4370
	F3"Beban150"	-1,10000	,09789	,000	-1,4630	-,7370
	F3"Beban200"	-1,60000	,09789	,000	-1,9630	-1,2370
F1"Beban100"	Kontrolnegatif:Beban50"	,50000	,09789	,001	,1370	,8630
	Kontrolnegatif"Beban100"	,20000	,09789	,785	-,1630	,5630
	Kontrolnegatif"Beban150"	-,20000	,09789	,785	-,5630	,1630
	Kontrolnegatif"Beban200"	-,50000	,09789	,001	-,8630	-,1370
	F1"Beban50"	,30000	,09789	,199	-,0630	,6630
	F1"Beban150"	-,46667	,09789	,003	-,8297	-,1037
	F1"Beban200"	-,83333	,09789	,000	-1,1963	-,4703
	F2"Beban50"	,00000	,09789	1,000	-,3630	,3630
	F2"Beban100"	-,30000	,09789	,199	-,6630	,0630
	F2"Beban150"	-,70000	,09789	,000	-1,0630	-,3370
	F2"Beban200"	-1,06667	,09789	,000	-1,4297	-,7037
	F3"Beban50"	-,10000	,09789	,999	-,4630	,2630
	F3"Beban100"	-,50000	,09789	,001	-,8630	-,1370
	F3"Beban150"	-,80000	,09789	,000	-1,1630	-,4370
	F3"Beban200"	-1,30000	,09789	,000	-1,6630	-,9370
F1"Beban150"	Kontrolnegatif:Beban50"	,96667	,09789	,000	,6037	1,3297
	Kontrolnegatif"Beban100"	,66667	,09789	,000	,3037	1,0297
	Kontrolnegatif"Beban150"	,26667	,09789	,359	-,0963	,6297
	Kontrolnegatif"Beban200"	-,03333	,09789	1,000	-,3963	,3297
	F1"Beban50"	,76667	,09789	,000	,4037	1,1297
	F1"Beban100"	,46667	,09789	,003	,1037	,8297
	F1"Beban200"	-,36667	,09789	,046	-,7297	-,0037
	F2"Beban50"	,46667	,09789	,003	,1037	,8297
	F2"Beban100"	,16667	,09789	,931	-,1963	,5297
	F2"Beban150"	-,23333	,09789	,571	-,5963	,1297
	F2"Beban200"	-,60000	,09789	,000	-,9630	-,2370
	F3"Beban50"	,36667	,09789	,046	,0037	,7297
	F3"Beban100"	-,03333	,09789	1,000	-,3963	,3297
	F3"Beban150"	-,33333	,09789	,099	-,6963	,0297
	F3"Beban200"	-,83333	,09789	,000	-1,1963	-,4703
F1"Beban200"	Kontrolnegatif:Beban50"	1,33333	,09789	,000	,9703	1,6963

	Kontrolnegatif"Beban100"	1,03333'	,09789	,000	,6703	1,3963
	Kontrolnegatif"Beban150"	,63333'	,09789	,000	,2703	,9963
	Kontrolnegatif"Beban200"	,33333	,09789	,099	-,0297	,6963
	F1"Beban50"	1,13333'	,09789	,000	,7703	1,4963
	F1"Beban100"	,83333'	,09789	,000	,4703	1,1963
	F1"Beban150"	,36667'	,09789	,046	,0037	,7297
	F2"Beban50"	,83333'	,09789	,000	,4703	1,1963
	F2"Beban100"	,53333'	,09789	,001	,1703	,8963
	F2"Beban150"	,13333	,09789	,989	-,2297	,4963
	F2"Beban200"	-,23333	,09789	,571	-,5963	,1297
	F3"Beban50"	,73333'	,09789	,000	,3703	1,0963
	F3"Beban100"	,33333	,09789	,099	-,0297	,6963
	F3"Beban150"	,03333	,09789	1,000	-,3297	,3963
	F3"Beban200"	-,46667'	,09789	,003	-,8297	-,1037
F2"Beban50"	Kontrolnegatif:Beban50"	,50000'	,09789	,001	,1370	,8630
	Kontrolnegatif"Beban100"	,20000	,09789	,785	-,1630	,5630
	Kontrolnegatif"Beban150"	-,20000	,09789	,785	-,5630	,1630
	Kontrolnegatif"Beban200"	-,50000'	,09789	,001	-,8630	-,1370
	F1"Beban50"	,30000	,09789	,199	-,0630	,6630
	F1"Beban100"	,00000	,09789	1,000	-,3630	,3630
	F1"Beban150"	-,46667'	,09789	,003	-,8297	-,1037
	F1"Beban200"	-,83333'	,09789	,000	-1,1963	-,4703
	F2"Beban100"	-,30000	,09789	,199	-,6630	,0630
	F2"Beban150"	-,70000'	,09789	,000	-1,0630	-,3370
	F2"Beban200"	-1,06667'	,09789	,000	-1,4297	-,7037
	F3"Beban50"	-,10000	,09789	,999	-,4630	,2630
	F3"Beban100"	-,50000'	,09789	,001	-,8630	-,1370
	F3"Beban150"	-,80000'	,09789	,000	-1,1630	-,4370
	F3"Beban200"	-1,30000'	,09789	,000	-1,6630	-,9370
F2"Beban100"	Kontrolnegatif:Beban50"	,80000'	,09789	,000	,4370	1,1630
	Kontrolnegatif"Beban100"	,50000'	,09789	,001	,1370	,8630
	Kontrolnegatif"Beban150"	,10000	,09789	,999	-,2630	,4630
	Kontrolnegatif"Beban200"	-,20000	,09789	,785	-,5630	,1630
	F1"Beban50"	,60000'	,09789	,000	,2370	,9630
	F1"Beban100"	,30000	,09789	,199	-,0630	,6630
	F1"Beban150"	-,16667	,09789	,931	-,5297	,1963
	F1"Beban200"	-,53333'	,09789	,001	-,8963	-,1703
	F2"Beban50"	,30000	,09789	,199	-,0630	,6630
	F2"Beban150"	-,40000'	,09789	,020	-,7630	-,0370
	F2"Beban200"	-,76667'	,09789	,000	-1,1297	-,4037
	F3"Beban50"	,20000	,09789	,785	-,1630	,5630
	F3"Beban100"	-,20000	,09789	,785	-,5630	,1630
	F3"Beban150"	-,50000'	,09789	,001	-,8630	-,1370
	F3"Beban200"	-1,00000'	,09789	,000	-1,3630	-,6370
F2"Beban150"	Kontrolnegatif:Beban50"	1,20000'	,09789	,000	,8370	1,5630
	Kontrolnegatif"Beban100"	,90000'	,09789	,000	,5370	1,2630
	Kontrolnegatif"Beban150"	,50000'	,09789	,001	,1370	,8630
	Kontrolnegatif"Beban200"	,20000	,09789	,785	-,1630	,5630
	F1"Beban50"	1,00000'	,09789	,000	,6370	1,3630
	F1"Beban100"	,70000'	,09789	,000	,3370	1,0630
	F1"Beban150"	,23333	,09789	,571	-,1297	,5963
	F1"Beban200"	-,13333	,09789	,989	-,4963	,2297
	F2"Beban50"	,70000'	,09789	,000	,3370	1,0630
	F2"Beban100"	,40000'	,09789	,020	,0370	,7630
	F2"Beban200"	-,36667'	,09789	,046	-,7297	-,0037
	F3"Beban50"	,60000'	,09789	,000	,2370	,9630

	F3"Beban100"	,20000	,09789	,785	-,1630	,5630
	F3"Beban150"	-,10000	,09789	,999	-,4630	,2630
	F3"Beban200"	-,60000	,09789	,000	-,9630	-,2370
F2"Beban200"	Kontrolnegatif:Beban50"	1,56667	,09789	,000	1,2037	1,9297
	Kontrolnegatif"Beban100"	1,26667	,09789	,000	,9037	1,6297
	Kontrolnegatif"Beban150"	,86667	,09789	,000	,5037	1,2297
	Kontrolnegatif"Beban200"	,56667	,09789	,000	,2037	,9297
	F1"Beban50"	1,36667	,09789	,000	1,0037	1,7297
	F1"Beban100"	1,06667	,09789	,000	,7037	1,4297
	F1"Beban150"	,60000	,09789	,000	,2370	,9630
	F1"Beban200"	,23333	,09789	,571	-,1297	,5963
	F2"Beban50"	1,06667	,09789	,000	,7037	1,4297
	F2"Beban100"	,76667	,09789	,000	,4037	1,1297
	F2"Beban150"	,36667	,09789	,046	,0037	,7297
	F3"Beban50"	,96667	,09789	,000	,6037	1,3297
	F3"Beban100"	,56667	,09789	,000	,2037	,9297
	F3"Beban150"	,26667	,09789	,359	-,0963	,6297
	F3"Beban200"	-,23333	,09789	,571	-,5963	,1297
F3"Beban50"	Kontrolnegatif:Beban50"	,60000	,09789	,000	,2370	,9630
	Kontrolnegatif"Beban100"	,30000	,09789	,199	-,0630	,6630
	Kontrolnegatif"Beban150"	-,10000	,09789	,999	-,4630	,2630
	Kontrolnegatif"Beban200"	-,40000	,09789	,020	-,7630	-,0370
	F1"Beban50"	,40000	,09789	,020	,0370	,7630
	F1"Beban100"	,10000	,09789	,999	-,2630	,4630
	F1"Beban150"	-,36667	,09789	,046	-,7297	-,0037
	F1"Beban200"	-,73333	,09789	,000	-1,0963	-,3703
	F2"Beban50"	,10000	,09789	,999	-,2630	,4630
	F2"Beban100"	-,20000	,09789	,785	-,5630	,1630
	F2"Beban150"	-,60000	,09789	,000	-,9630	-,2370
	F2"Beban200"	-,96667	,09789	,000	-1,3297	-,6037
	F3"Beban100"	-,40000	,09789	,020	-,7630	-,0370
	F3"Beban150"	-,70000	,09789	,000	-1,0630	-,3370
	F3"Beban200"	-1,20000	,09789	,000	-1,5630	-,8370
F3"Beban100"	Kontrolnegatif:Beban50"	1,00000	,09789	,000	,6370	1,3630
	Kontrolnegatif"Beban100"	,70000	,09789	,000	,3370	1,0630
	Kontrolnegatif"Beban150"	,30000	,09789	,199	-,0630	,6630
	Kontrolnegatif"Beban200"	,00000	,09789	1,000	-,3630	,3630
	F1"Beban50"	,80000	,09789	,000	,4370	1,1630
	F1"Beban100"	,50000	,09789	,001	,1370	,8630
	F1"Beban150"	,03333	,09789	1,000	-,3297	,3963
	F1"Beban200"	-,33333	,09789	,099	-,6963	,0297
	F2"Beban50"	,50000	,09789	,001	,1370	,8630
	F2"Beban100"	,20000	,09789	,785	-,1630	,5630
	F2"Beban150"	-,20000	,09789	,785	-,5630	,1630
	F2"Beban200"	-,56667	,09789	,000	-,9297	-,2037
	F3"Beban50"	,40000	,09789	,020	,0370	,7630
	F3"Beban150"	-,30000	,09789	,199	-,6630	,0630
	F3"Beban200"	-,80000	,09789	,000	-1,1630	-,4370
F3"Beban150"	Kontrolnegatif:Beban50"	1,30000	,09789	,000	,9370	1,6630
	Kontrolnegatif"Beban100"	1,00000	,09789	,000	,6370	1,3630
	Kontrolnegatif"Beban150"	,60000	,09789	,000	,2370	,9630
	Kontrolnegatif"Beban200"	,30000	,09789	,199	-,0630	,6630
	F1"Beban50"	1,10000	,09789	,000	,7370	1,4630
	F1"Beban100"	,80000	,09789	,000	,4370	1,1630
	F1"Beban150"	,33333	,09789	,099	-,0297	,6963
	F1"Beban200"	-,03333	,09789	1,000	-,3963	,3297

	F2"Beban50"	,80000*	,09789	,000	,4370	1,1630
	F2"Beban100"	,50000*	,09789	,001	,1370	,8630
	F2"Beban150"	,10000	,09789	,999	-,2630	,4630
	F2"Beban200"	-,26667	,09789	,359	-,6297	,0963
	F3"Beban50"	,70000*	,09789	,000	,3370	1,0630
	F3"Beban100"	,30000	,09789	,199	-,0630	,6630
	F3"Beban200"	-,50000*	,09789	,001	-,8630	-,1370
F3"Beban200"	Kontrolnegatif"Beban50"	1,80000*	,09789	,000	1,4370	2,1630
	Kontrolnegatif"Beban100"	1,50000*	,09789	,000	1,1370	1,8630
	Kontrolnegatif"Beban150"	1,10000*	,09789	,000	,7370	1,4630
	Kontrolnegatif"Beban200"	,80000*	,09789	,000	,4370	1,1630
	F1"Beban50"	1,60000*	,09789	,000	1,2370	1,9630
	F1"Beban100"	1,30000*	,09789	,000	,9370	1,6630
	F1"Beban150"	,83333*	,09789	,000	,4703	1,1963
	F1"Beban200"	,46667*	,09789	,003	,1037	,8297
	F2"Beban50"	1,30000*	,09789	,000	,9370	1,6630
	F2"Beban100"	1,00000*	,09789	,000	,6370	1,3630
	F2"Beban150"	,60000*	,09789	,000	,2370	,9630
	F2"Beban200"	,23333	,09789	,571	-,1297	,5963
	F3"Beban50"	1,20000*	,09789	,000	,8370	1,5630
	F3"Beban100"	,80000*	,09789	,000	,4370	1,1630
	F3"Beban150"	,50000*	,09789	,001	,1370	,8630

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

UjiDayaSebar

Tukey HSD^a

Formula	N	Subset for alpha = 0.05								
		1	2	3	4	5	6	7	8	9
Kontrolnegatif:Beban50"	3	4,3000								
F1"Beban50"	3	4,5000	4,5000							
Kontrolnegatif"Beban100"	3	4,6000	4,6000	4,6000						
F1"Beban100"	3		4,8000	4,8000	4,8000					
F2"Beban50"	3		4,8000	4,8000	4,8000					
F3"Beban50"	3			4,9000	4,9000					
Kontrolnegatif"Beban150"	3				5,0000	5,0000				
F2"Beban100"	3				5,1000	5,1000				
F1"Beban150"	3					5,2667	5,2667			
F3"Beban100"	3					5,3000	5,3000	5,3000		
Kontrolnegatif"Beban200"	3					5,3000	5,3000	5,3000		
F2"Beban150"	3						5,5000	5,5000		
F3"Beban150"	3						5,6000	5,6000	5,6000	
F1"Beban200"	3							5,6333	5,6333	
F2"Beban200"	3								5,8667	5,8667
F3"Beban200"	3									6,1000
Sig.		,199	,199	,199	,199	,199	,099	,099	,359	,571

Means for groups in homogeneous subsets are displayed.

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

Lampiran 17. Hasil analisis data mutu fisik daya lekat sediaan gel ekstrak daun sirih

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji Daya Lekat	Kontrol negatif	,204	3	.	,993	3	,843
	F1	,299	3	.	,915	3	,433
	F2	,184	3	.	,999	3	,927
	F3	,282	3	.	,936	3	,510

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Uji Daya Lekat	Based on Mean	,970	3	8	,453
	Based on Median	,312	3	8	,816
	Based on Median and with adjusted df	,312	3	5,403	,817
	Based on trimmed mean	,911	3	8	,478

ANOVA

Uji Daya Lekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1,924	3	,641	142,553	,000
Within Groups	,036	8	,005		
Total	1,960	11			

Multiple Comparisons

Dependent Variable: Uji Daya Lekat

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol negatif	F1	,58333*	,05477	,000	,4079	,7587
	F2	,80667*	,05477	,000	,6313	,9821
	F3	1,09000*	,05477	,000	,9146	1,2654
F1	Kontrol negatif	-,58333*	,05477	,000	-,7587	-,4079
	F2	,22333*	,05477	,015	,0479	,3987
	F3	,50667*	,05477	,000	,3313	,6821
F2	Kontrol negatif	-,80667*	,05477	,000	-,9821	-,6313
	F1	-,22333*	,05477	,015	-,3987	-,0479
	F3	,28333*	,05477	,004	,1079	,4587
F3	Kontrol negatif	-1,09000*	,05477	,000	-1,2654	-,9146
	F1	-,50667*	,05477	,000	-,6821	-,3313
	F2	-,28333*	,05477	,004	-,4587	-,1079

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

Uji Daya Lekat

Tukey HSD^a

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
F3	3	5,8333			
F2	3		6,1167		
F1	3			6,3400	
Kontrol negatif	3				6,9233
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 18. Hasil analisis data viskositas *cycling test* sediaan gel ekstrak daun sirih

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji Viskositas Sebelum	Kontrol negatif	,385	3	.	,750	3	,000
	F1	,385	3	.	,750	3	,000
	F2	,385	3	.	,750	3	,000
	F3	,385	3	.	,750	3	,000
Uji Viskositas Sesudah	Kontrol negatif	,385	3	.	,750	3	,000
	F1	,385	3	.	,750	3	,000
	F2	,385	3	.	,750	3	,000
	F3	,385	3	.	,750	3	,000

a. Lilliefors Significance Correction

Ranks				
		N	Mean Rank	Sum of Ranks
Uji Viskositas Sesudah - Uji Viskositas Sebelum	Negative Ranks	9 ^a	5,00	45,00
	Positive Ranks	0 ^b	,00	,00
	Ties	3 ^c		
	Total	12		

a. Uji Viskositas Sesudah < Uji Viskositas Sebelum

b. Uji Viskositas Sesudah > Uji Viskositas Sebelum

c. Uji Viskositas Sesudah = Uji Viskositas Sebelum

Test Statistics^a

	Uji Viskositas Sesudah - Uji Viskositas Sebelum
Z	-2,754 ^b
Asymp. Sig. (2-tailed)	,006

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

Lampiran 19. Hasil analisis data pH *cyling test* sediaan gel ekstrak daun sirih

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH_Sebelum	Based on Mean	.284	3	8	.836
	Based on Median	.073	3	8	.973
	Based on Median and with adjusted df	.073	3	6.941	.972
	Based on trimmed mean	.262	3	8	.851
pH_Sesudah	Based on Mean	.209	3	8	.887
	Based on Median	.129	3	8	.940
	Based on Median and with adjusted df	.129	3	6.747	.940
	Based on trimmed mean	.202	3	8	.892

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
pH_Sebelum	Kontrol Negatif	.292	3	.	.923	3	.463
	Formula 1	.211	3	.	.991	3	.817
	Formula 2	.269	3	.	.949	3	.567
	Formula 3	.285	3	.	.932	3	.497
pH_Sesudah	Kontrol Negatif	.175	3	.	1.000	3	1.000
	Formula 1	.333	3	.	.862	3	.274
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
pH_Sebelum	Between Groups	.132	3	.044	10.905	.003
	Within Groups	.032	8	.004		
	Total	.165	11			
pH_Sesudah	Between Groups	.132	3	.044	8.713	.007
	Within Groups	.040	8	.005		
	Total	.172	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
pH_Sebelum	Kontrol Negatif	Formula 1	.22333*	.05196	.011	.0569	.3897
		Formula 2	.25667*	.05196	.005	.0903	.4231
		Formula 3	.24333*	.05196	.007	.0769	.4097
	Formula 1	Kontrol Negatif	-.22333*	.05196	.011	-.3897	-.0569
		Formula 2	.03333	.05196	.916	-.1331	.1997
		Formula 3	.02000	.05196	.979	-.1464	.1864
	Formula 2	Kontrol Negatif	-.25667*	.05196	.005	-.4231	-.0903
		Formula 1	-.03333	.05196	.916	-.1997	.1331
		Formula 3	-.01333	.05196	.994	-.1797	.1531
	Formula 3	Kontrol Negatif	-.24333*	.05196	.007	-.4097	-.0769
		Formula 1	-.02000	.05196	.979	-.1864	.1464
		Formula 2	.01333	.05196	.994	-.1531	.1797
pH_Sesudah	Kontrol Negatif	Formula 1	.22000*	.05802	.022	.0342	.4058
		Formula 2	.26000*	.05802	.009	.0742	.4458
		Formula 3	.24000*	.05802	.014	.0542	.4258
	Formula 1	Kontrol Negatif	-.22000*	.05802	.022	-.4058	-.0342
		Formula 2	.04000	.05802	.898	-.1458	.2258
		Formula 3	.02000	.05802	.985	-.1658	.2058
	Formula 2	Kontrol Negatif	-.26000*	.05802	.009	-.4458	-.0742
		Formula 1	-.04000	.05802	.898	-.2258	.1458
		Formula 3	-.02000	.05802	.985	-.2058	.1658
	Formula 3	Kontrol Negatif	-.24000*	.05802	.014	-.4258	-.0542
		Formula 1	-.02000	.05802	.985	-.2058	.1658
		Formula 2	.02000	.05802	.985	-.1658	.2058

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

Paired Samples Test

		Paired Differences			95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	pH_Sebelum - pH_Sesudah	.03917	.02065	.00596	.02604	.05229	6.570	11	.000

Lampiran 20. Hasil analisis zona hambat dengan metode difusi sumuran sediaan gel ekstrak daun sirih

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DayaHambat	Formula 1	,253	3	.	,964	3	,637
	Formula 2	,175	3	.	1,000	3	1,000
	Formula 3	,175	3	.	1,000	3	1,000
	Kontrol Positif	,175	3	.	1,000	3	1,000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
DayaHambat	Based on Mean	,400	3	8	,757
	Based on Median	,167	3	8	,916
	Based on Median and with adjusted df	,167	3	6,000	,915
	Based on trimmed mean	,384	3	8	,768

ANOVA

DayaHambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	356,641	3	118,880	1426,562	,000
Within Groups	,667	8	,083		
Total	357,307	11			

Multiple Comparisons

Dependent Variable: DayaHambat
Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-1,83333*	,23570	,000	-2,5881	-1,0785
	Formula 3	-3,83333*	,23570	,000	-4,5881	-3,0785
	Kontrol Positif	-14,08333*	,23570	,000	-14,8381	-13,3285
Formula 2	Formula 1	1,83333*	,23570	,000	1,0785	2,5881
	Formula 3	-2,00000*	,23570	,000	-2,7548	-1,2452
	Kontrol Positif	-12,25000*	,23570	,000	-13,0048	-11,4952
Formula 3	Formula 1	3,83333*	,23570	,000	3,0785	4,5881
	Formula 2	2,00000*	,23570	,000	1,2452	2,7548
	Kontrol Positif	-10,25000*	,23570	,000	-11,0048	-9,4952
Kontrol Positif	Formula 1	14,08333*	,23570	,000	13,3285	14,8381
	Formula 2	12,25000*	,23570	,000	11,4952	13,0048
	Formula 3	10,25000*	,23570	,000	9,4952	11,0048

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

Tukey HSD^a

DayaHambat					
Formula	N	Subset for alpha = 0.05			
		1	2	3	4
Formula 1	3	21,6667			
Formula 2	3		23,5000		
Formula 3	3			25,5000	
Kontrol Positif	3				35,7500
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.