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Lampiran 1. Hasil determinasi tanaman sirsak (*Annona muricata* Linn.)



PEMERINTAH PROVINSI JAWA TIMUR DINAS KESEHATAN UPT LABORATORIUM HERBAL MATERIA MEDICA BATU

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Nomor : 074/ 186/ 102.20-A/ 2022
Sifat : Biasa
Perihal : **Determinasi Tanaman Sirsak**

Memenuhi permohonan saudara :

Nama : AGNES NUR MILENIAWATI
NIM : 24185565A
Fakultas : FARMASI, UNIVERSITAS SETIA BUDI SURAKARTA

1. Perihal determinasi tanaman sirsak

Kingdom : Plantae (Tumbuhan)
Divisi : Magnoliophyta (Tumbuhan berbunga)
Kelas : Magnoliopsida (Berkeping dua/ dikotil)
Ordo : Magnoliales
Bangsa : Ranunculales
Suku : Annonaceae
Marga : Annona
Jenis : *Annona muricata* L.
Nama Daerah : Sirsak (Indonesia); nangka sabrang, nangka landa, muris (Jawa); nangka walanda, sirsak (Sunda); nangka buris (Madura); srikaya jawa (Bali); (Minangkabau); jambu landa (Lampung); langelo walanda (Gorontalo); sirikaya balanda (Bugis, Makasar).
Kunci Determinasi : 1b-2b-3b-4b-6b-7b-9b-10b-11b-12b-13b-14a-15a-109b-119b-120b-128b-129b-135b-136b-139b-140b-142b-143b-146b-154b-155b-156b-162b-163a-164b-165b-166a:Annonaceae-1b:Annona-1a:*A. muricata*

2. Morfologi

Habitus: Pohon, tinggi ± 8 m. Batang: Berkayu, bulat, bercabang, coklat kotor.
Daun: Tunggal, bulat telur atau lanset, ujung runcing, tepi rata, pangkal meruncing, panjang 6-18 cm, lebar 2-6 cm, pertulangan menyirip, tangkai ± 5 mm, tangkai hijau kekuningan, hijau. Bunga: Tunggal, pada batang dan ranting, daun kelopak kecil, kuning keputih-putihan, benang sari banyak, berambut, kepala putik silindris, mahkota berdaging, bulat telur, panjang 3-5 cm, kuning muda. Buah: Majemuk, bulat telur, panjang 15-35 cm, diameter 10-15 cm, hijau. Biji: Bulat telur, keras, hitam. Akar: Tunggang, bulat, coklat muda.

3. Bagian yang digunakan : Daun.

4. Penggunaan : Penelitian (Skripsi).

5. Daftar Pustaka

- Van Steenis, CGGJ. 2008. *FLORA: untuk Sekolah di Indonesia*. Pradnya Paramita, Jakarta.

Demikian surat keterangan determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 04 Maret 2022

KEPALA UPT LABORATORIUM HERBAL
MATERIA MEDICA BATU



ACHMAD MABRUR, SKM, M.Kes.
PEMBINA

NIP. 19680203 199203 1 004

Lampiran 2. Alat-alat penelitian

Botol maserasi



Alat rotary evaporator



Timbangan analitik



Desikator



Krus



Oven



Sterling bidwell



Autoklaf

Lampiran 3. Tanaman sirsak

Tanaman sirsak



Daun sirsak



Serbuk daun sirsak



Ekstrak etanol daun sirsak

Lampiran 4. Proses pembuatan serbuk daun sirsak

Pemanenan dan sortasi basah



Pencucian



Perajangan



Pengeringan



Sortasi kering



Penggilingan



Pengayakan



Serbuk halus

Lampiran 5. Hasil perhitungan persentase rendemen pengeringan daun sirsak dan serbuk daun sirsak (*Annona muricata* Linn.)

Sampel	Bobot basah (g)	Bobot kering (g)	Rendemen (%)
Daun sirsak	3.500	1.800	51,43

$$\begin{aligned}
 \text{Rendemen simplisia kering daun sirsak} &= \frac{\text{bobot kering}}{\text{bobot basah}} \times 100\% \\
 &= \frac{1800 \text{ g}}{3500 \text{ g}} \times 100\% \\
 &= 51,43\%
 \end{aligned}$$

Sampel	Bobot kering (g)	Bobot serbuk (g)	Rendemen (%)
Daun sirsak	1.800	1.105	61,39

$$\begin{aligned}
 \text{Rendemen serbuk terhadap berat kering} &= \frac{\text{bobot serbuk}}{\text{bobot kering}} \times 100\% \\
 &= \frac{1105 \text{ g}}{1800 \text{ g}} \times 100\% \\
 &= 61,39\%
 \end{aligned}$$

Lampiran 6. Hasil standarisasi serbuk daun sirsak

1. Hasil perhitungan penetapan susut pengeringan serbuk daun sirsak

Replikasi	Bobot serbuk (g)	Susut pengeringan (%)
1	2,18	8,5
2	2,10	9,5
3	2,20	8,5
Rata-rata (%±SD)		8,83±0,57

Replikasi 1 = 8,5%

Replikasi 2 = 9,5%

Replikasi 3 = 8,5%

Rata-rata susut pengeringan serbuk dengan metode *mouisture balance*

replikasi 1+replikasi 2+replikasi 3

= $\frac{\quad}{3}$

= $\frac{8,5 + 9,5 + 8,5}{3}$

= 8,83% 3

Hasil susut pengeringan :



2. Hasil perhitungan penetapan kadar air serbuk daun sirsak

Replikasi	Bobot serbuk (g)	Volume air (mL)	Kadar air (%)
1	20,1261	1,3	6,46
2	20,1287	1,6	7,95
3	20,1308	2,0	9,94
Rata-rata (%±SD)			8,12±1,76

$$\begin{aligned} \text{Replikasi 1} &= \frac{\text{volume air (mL)}}{\text{bobot serbuk (g)}} \times 100\% \\ &= \frac{1,3 \text{ mL}}{20,1261} \times 100\% \end{aligned}$$

$$\begin{aligned} &= 6,46\% \text{ (v/b)} \\ \text{Replikasi 2} &= \frac{\text{volume air (mL)}}{\text{bobot serbuk (g)}} \times 100\% \\ &= \frac{1,6 \text{ mL}}{20,1287} \times 100\% \\ &= 7,95\% \text{ (v/b)} \end{aligned}$$

$$\begin{aligned}
 \text{Replikasi 3} &= \frac{\text{volume air (mL)}}{\text{bobot serbuk (g)}} \times 100\% \\
 &= \frac{2,0 \text{ mL}}{20,1308} \times 100 \\
 &= 9,94\% \text{ (v/b)}
 \end{aligned}$$

Rata-rata presentase kadar air serbuk metode *sterling-bidwell*

$$\begin{aligned}
 &= \frac{\text{replikasi 1} + \text{replikasi 2} + \text{replikasi 3}}{3} \\
 &= \frac{6,46\% + 7,95\% + 9,94\%}{3} \\
 &= 8,12\%
 \end{aligned}$$

Hasil kadar air :



Lampiran 7. Hasil standarisasi ekstrak etanol daun sirsak

1. Hasil perhitungan rendemen ekstrak etanol daun sirsak

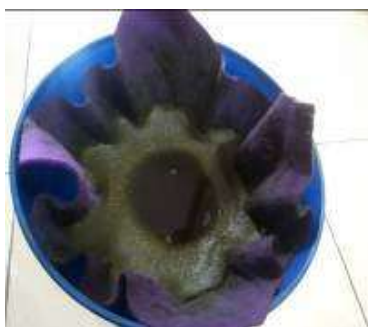
Bobot serbuk (g)	Bobot ekstrak (g)	Rendemen (%)
900	152	16,88

$$\begin{aligned}
 \text{Rendemen ekstrak} &= \frac{\text{bobot ekstrak (g)}}{\text{bobot serbuk (g)}} \times 100\% \\
 &= \frac{152 \text{ g}}{900 \text{ g}} \times 100\% \\
 &= 16,88\%
 \end{aligned}$$

Proses maserasi :

2. Hasil perhitungan penetapan susut pengeringan ekstrak etanol daun sirsak

Replikasi	Bobot awal (g)	Bobot akhir (g)	% Susut pengeringan
1	2,0082	1,8210	9,32
2	2,0093	1,8325	8,80
3	2,0099	1,8408	8,41



Rata-rata (%±SD)	8,84±0,45
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1) Replikasi 1 :

- Bobot krus kosong = 56,6538 g
 Krus + sampel = 58,6620 g
 Sampel = 58,6620 – 56,6538
 = 2,0082 g
- Bobot krus + sampel akhir = 58,4748 g
 Sampel = 58,6538 – 58,4748
 = 1,8210 g

$$\text{\% Susut pengeringan} = \frac{(\text{Bobot awal} - \text{bobot akhir})}{\text{Bobot awal}} \times 100\%$$

$$= \frac{2,0082 - 1,8210}{2,0082} \times 100\%$$

$$= 9,32\%$$

2) Replikasi 2 :

- Bobot krus kosong = 64,0426 g
- Krus + sampel = 66,0519 g
- Sampel = 66,0519 – 64,0426
- = 2,0093 g
- Bobot krus + sampel akhir = 65,8751 g
- Sampel = 65,8751 – 64,0426
- = 1,8325 g

$$\% \text{ Susut pengeringan} = \frac{(\text{Bobot awal} - \text{bobot akhir})}{\text{Bobot awal}} \times 100\%$$

$$= \frac{2,0093 - 1,8325}{2,0093} \times 100\%$$

$$= 8,80\%$$

3) Replikasi 3 :

- Bobot krus kosong = 65,5155 g
- Krus + sampel = 67,5254 g
- Sampel = 67,5254 – 65,5155
- = 2,0099 g
- Bobot krus + sampel akhir = 67,3563 g
- Sampel = 67,3563 – 65,5155
- = 1,8408 g

$$\% \text{ Susut pengeringan} = \frac{(\text{Bobot awal} - \text{bobot akhir})}{\text{Bobot awal}} \times 100\%$$

$$= \frac{2,0099 - 1,8408}{2,0099} \times 100\%$$

$$= 8,41\%$$

Rata-rata presentase susut pengeringan ekstrak metode gravimetri

$$= \frac{\text{replikasi 1} + \text{replikasi 2} + \text{replikasi 3}}{3}$$

$$= \frac{9,32 + 8,80 + 8,41}{3} = 8,84\% \text{ (b/b)}$$

Lampiran 8. Hasil identifikasi kandungan kimia ekstrak etanol daun sirsak

Kandungan Kimia	Cara Kerja	Interpretasi Hasil
Alkaloid	0,5 g ekstrak + 9 mL akuades + 1 mL HCl 2N → dipanaskan → 0,5 mL filtrat I + 2 tts <i>Bouchardat</i> LP dan 0,5 mL filtrat II + 2 tts <i>Dragendorff</i>	 <i>Bouchardat</i> LP : Terbentuk endapan coklat hitam  <i>Dragendorff</i> LP : Terbentuk endapan jingga

Flavonoid

0,5 g ekstrak + akuades
hangat → 5 mL filtrate +
0,1 g Mg + 1 mL HCl
pekat + 2 mL amil alkohol
→ Kocok



Terbentuk warna jingga pada
lapisan amil alkohol

Tanin

0,5 g ekstrak + akuades
hangat + 2 tts FeCl_3 1%



Terbentuk warna hijau kehitaman

Saponin

0,5 g ekstrak + akuades
hangat → kocok kuat + 2
tts HCl 2N



Terbentuk busa stabil dengan
tinggi 1,5 cm

Lampiran 9. Perhitungan variasi konsentrasi larutan ekstrak etanol daun sirsak

- Pengenceran larutan DMSO pekat 100%

$$100\% \times V = 10\% \times 20 \text{ mL}$$

$$= \frac{10\% \times 20 \text{ mL}}{100\%} = 2 \text{ mL}$$

Larutan DMSO 10% = 2 mL ad 20 mL

- Pembuatan larutan ekstrak konsentrasi 3%

$$3\% = 3 \text{ g}/100 \text{ mL}$$

$$= 0,3 \text{ g}/10 \text{ mL}$$

Cara kerja : ekstrak 0,3 g dilarutkan dengan 10 mL larutan DMSO 10%

- Pembuatan larutan ekstrak konsentrasi 6%

$$6\% = 6 \text{ g}/100 \text{ mL}$$

$$= 0,6 \text{ g}/10 \text{ mL}$$

Cara kerja : ekstrak 0,6 g dilarutkan dengan 10 mL larutan DMSO 10%

- Pembuatan larutan ekstrak konsentrasi 9%

$$9\% = 9 \text{ g}/100 \text{ mL}$$

$$= 0,9 \text{ g}/10 \text{ mL}$$

Cara kerja : ekstrak 0,9 g dilarutkan dengan 10 mL larutan DMSO 10%

- Pembuatan larutan ekstrak konsentrasi 12%

$$12\% = 12 \text{ g}/100 \text{ mL}$$

$$= 1,2 \text{ g}/10 \text{ mL}$$

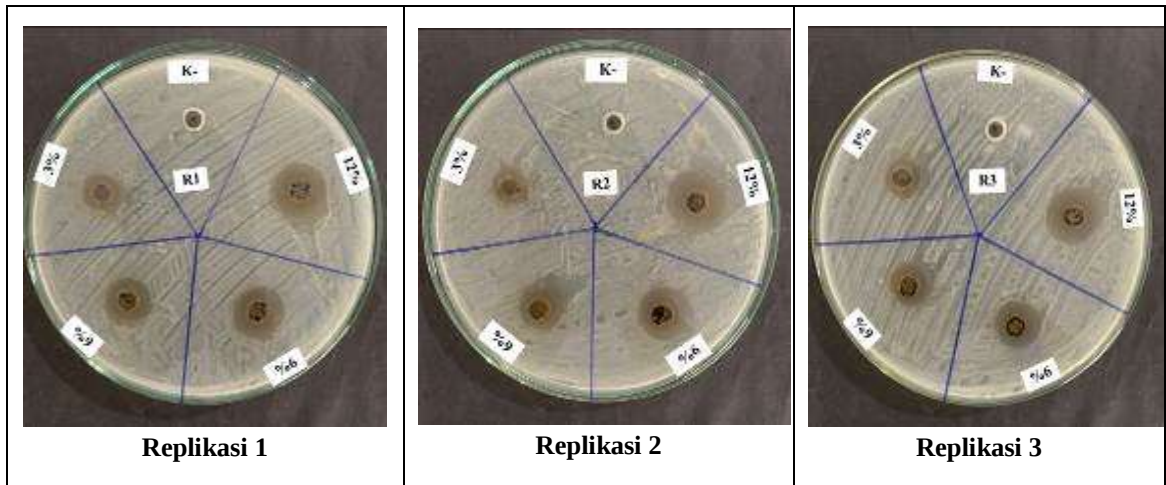
Cara kerja : ekstrak 1,2 g dilarutkan dengan 10 mL larutan DMSO 10%

Variasi konsentrasi ekstrak etanol daun sirsak :

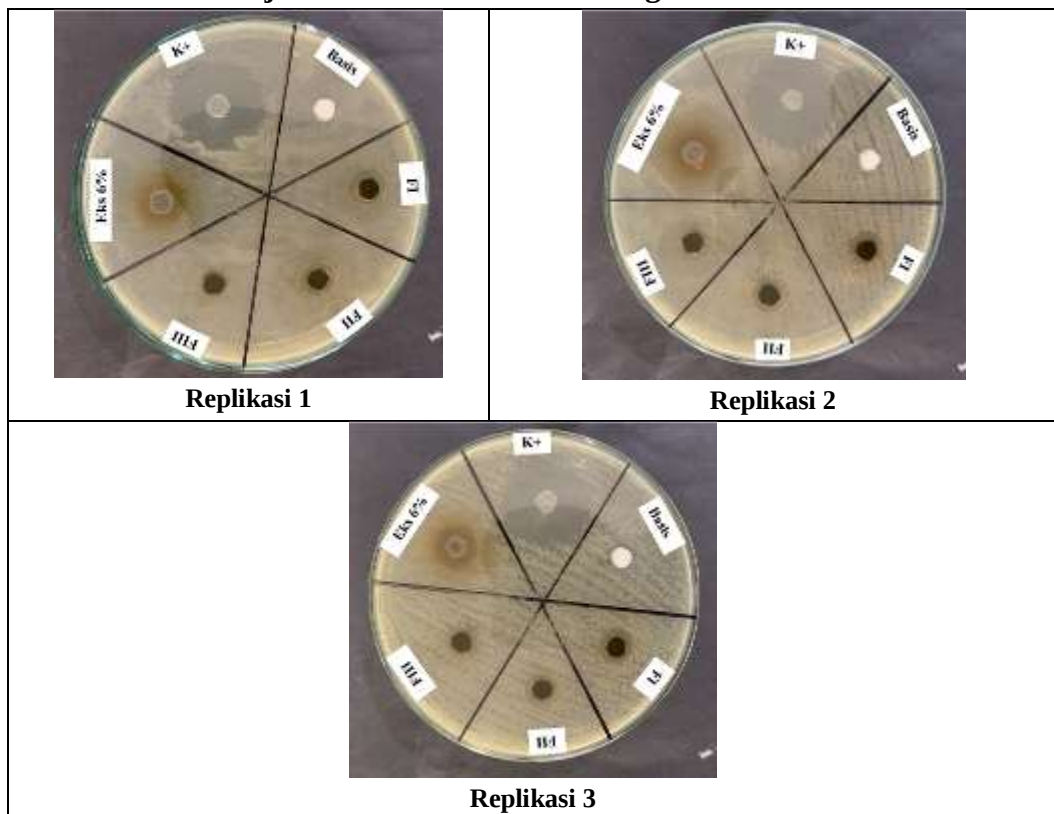


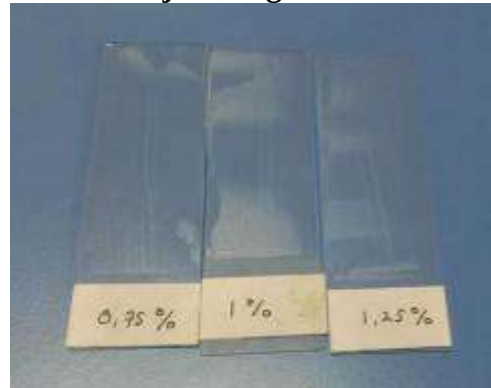
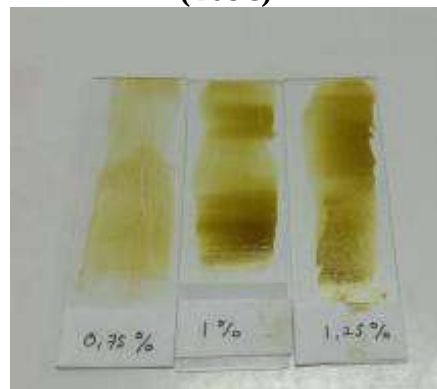
Lampiran 10. Hasil uji aktivitas antibakteri terhadap *Staphylococcus aureus*

1. Hasil uji aktivitas antibakteri ekstrak etanol daun sirsak



2. Hasil uji aktivitas antibakteri emulgel etanol daun sirsak



Lampiran 11. Hasil uji mutu fisik emulgel ekstrak etanol daun sirsak**Uji organoleptik****(Basis)****(Formula I, II, dan III)****Uji homogenitas****(Basis)****(Formula I, II, dan III)****Uji daya sebar****Uji daya lekat**

Uji tipe emulsi

(Dispersi zat warna)



(Hantar listrik)

Uji viskositas

Lampiran 12. Data hasil uji pH emulgel ekstrak etanol daun sirsak

1. BASIS EMULGEL

Tests of Normality^{b,c,d,e}

pH_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_pH_basis	F1	.175	3	.	1.000	3	1.000
F1	F1	.175	3	.	1.000	3	1.000
F2	F1	.295	3	.	.919	3	.450
F3	F1	.304	3	.	.907	3	.407

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_pH_basis when pH_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F1 when pH_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F2 when pH_basis = 2.000. Statistics cannot be computed for this level.

e. There are no valid cases for F3 when pH_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_pH_basis F1	3	5.8200	.17000	.09815	5.3977	6.2423	5.65	5.99
F2	3	5.5333	.06658	.03844	5.3679	5.6987	5.46	5.59
F3	3	5.2333	.04726	.02728	5.1159	5.3507	5.18	5.27
Total	9	5.5289	.27099	.09033	5.3206	5.7372	5.18	5.99

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_pH_basis	1.439	2	6	.309

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hasil_pH_basis	Between Groups	.516	2	.258	21.777	.002
	Within Groups	.071	6	.012		
	Total	.587	8			

Hasil_pH_basis

pH_basis	N	Subset for alpha = 0.05		
		1	2	3
Tukey HSD ^a F3	3	5.2333		
F2	3		5.5333	
F1	3			5.8200
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

2. EMULGEL EKSTRAK

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_pH_ekstrak	.292	3	.	.923	3	.463
F1	.292	3	.	.923	3	.463
F2	.253	3	.	.964	3	.637
F3	.191	3	.	.997	3	.900

a. Lilliefors Significance Correction

Descriptives

Hasil_pH_ekstrak

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	5.5033	.02082	.01202	5.4516	5.5550	5.48	5.52
2	3	5.2967	.03055	.01764	5.2208	5.3726	5.27	5.33
3	3	5.0067	.05508	.03180	4.8699	5.1435	4.95	5.06
Total	9	5.2689	.21860	.07287	5.1009	5.4369	4.95	5.52

Test of Homogeneity of Variances

Hasil_pH_ekstrak

Levene Statistic	df1	df2	Sig.
1.013	2	6	.418

ANOVA

Hasil_pH_ekstrak

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.373	2	.187	127.326	.000
Within Groups	.009	6	.001		
Total	.382	8			

Hasil_pH_ekstrak

Tukey HSD^a

pH_ekstrak	N	Subset for alpha = 0.05		
		1	2	3
3	3	5.0067		
2	3		5.2967	
1	3			5.5033
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 13. Data hasil uji viskositas emulgel ekstrak etanol daun sirsak

1. BASIS EMULGEL

Tests of Normality^{b,c,d,e}

Viskositas_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_viskositas_basis	F1	.253	3	.	.964	3	.637
F1	F1	.253	3	.	.964	3	.637
F2	F1	.292	3	.	.923	3	.463
F3	F1	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_viskositas_basis when Viskositas_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F1 when Viskositas_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F2 when Viskositas_basis = 2.000. Statistics cannot be computed for this level.

e. There are no valid cases for F3 when Viskositas_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Hasil_viskositas_basis	F1	3	186.67	15.275	8.819	148.72	224.61	170	200
	F2	3	273.33	20.817	12.019	221.62	325.04	250	290
	F3	3	343.33	20.817	12.019	291.62	395.04	320	360
	Total	9	267.78	69.960	23.320	214.00	321.55	170	360

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_viskositas_basis	.314	2	6	.742

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hasil_viskositas_basis	Between Groups	36955.556	2	18477.778	50.394	.000
	Within Groups	2200.000	6	366.667		
	Total	39155.556	8			

Hasil_viskositas_basis

Viskositas_basis		N	Subset for alpha = 0.05		
			1	2	3
Tukey HSD ^a	F1	3	186.67		
	F2	3		273.33	
	F3	3			343.33
	Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

2. EMULGEL EKSTRAK

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_viskositas_eks	.175	3	.	1.000	3	1.000
F1	.175	3	.	1.000	3	1.000
F2	.253	3	.	.964	3	.637
F3	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

Hasil_viskositas_eks

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	3	150.00	10.000	5.774	125.16	174.84	140	160
F2	3	213.33	15.275	8.819	175.39	251.28	200	230
F3	3	260.00	10.000	5.774	235.16	284.84	250	270
Total	9	207.78	48.933	16.311	170.16	245.39	140	270

Test of Homogeneity of Variances

Hasil_viskositas_eks

Levene Statistic	df1	df2	Sig.
.516	2	6	.621

ANOVA

Hasil_viskositas_eks

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	18288.889	2	9144.444	63.308	.000
Within Groups	866.667	6	144.444		
Total	19155.556	8			

Hasil_viskositas_eks

Tukey HSD^a

Viskositas_eks	N	Subset for alpha = 0.05		
		1	2	3
F1	3	150.00		
F2	3		213.33	
F3	3			260.00
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 14. Data hasil uji daya sebar basis emulgel dan emulgel ekstrak etanol daun sirsak

1. BASIS EMULGEL

Tests of Normality^{b,c,d,e,f,g,h,i,j,k,l,m,n}

Uji_dayasebar		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji_dayasebar_emulgel_basis	1	.253	3	.	.964	3	.637
F1_beban_0	1	.253	3	.	.964	3	.637
F1_beban_50	1	.175	3	.	1.000	3	1.000
F1_beban_100	1	.175	3	.	1.000	3	1.000
F1_beban_150	1	.175	3	.	1.000	3	1.000
F2_beban_0	1	.253	3	.	.964	3	.637
F2_beban_50	1	.175	3	.	1.000	3	1.000
F2_beban_100	1	.175	3	.	1.000	3	1.000
F2_beban_150	1	.175	3	.	1.000	3	1.000
F3_beban_0	1	.175	3	.	1.000	3	1.000
F3_beban_50	1	.253	3	.	.964	3	.637
F3_beban_100	1	.253	3	.	.964	3	.637
F3_beban_150	1	.253	3	.	.964	3	.637

Descriptives

Uji_dayasebar_emulgel_basis

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.2667	.15275	.08819	2.8872	3.6461	3.10	3.40
2	3	3.6000	.10000	.05774	3.3516	3.8484	3.50	3.70
3	3	4.0000	.10000	.05774	3.7516	4.2484	3.90	4.10
4	3	4.4000	.10000	.05774	4.1516	4.6484	4.30	4.50
5	3	3.1667	.15275	.08819	2.7872	3.5461	3.00	3.30
6	3	3.3000	.10000	.05774	3.0516	3.5484	3.20	3.40
7	3	3.5000	.10000	.05774	3.2516	3.7484	3.40	3.60
8	3	3.8000	.20000	.11547	3.3032	4.2968	3.60	4.00
9	3	3.0000	.10000	.05774	2.7516	3.2484	2.90	3.10
10	3	3.1667	.15275	.08819	2.7872	3.5461	3.00	3.30
11	3	3.2667	.15275	.08819	2.8872	3.6461	3.10	3.40
12	3	3.4667	.15275	.08819	3.0872	3.8461	3.30	3.60
Total	36	3.4944	.40634	.06772	3.3570	3.6319	2.90	4.50

Test of Homogeneity of Variances

Uji_dayasebar_emulgel_basis

Levene Statistic	df1	df2	Sig.
.420	11	24	.932

ANOVA

Uji_dayasebar_emulgel_basis

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.346	11	.486	26.915	.000
Within Groups	.433	24	.018		
Total	5.779	35			

Uji_dayasebar_emulgel_basisTukey HSD^a

Uji_dayasebar	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
9	3	3.0000					
5	3	3.1667	3.1667				
10	3	3.1667	3.1667				
1	3	3.2667	3.2667	3.2667			
11	3	3.2667	3.2667	3.2667			
6	3	3.3000	3.3000	3.3000			
12	3		3.4667	3.4667	3.4667		
7	3		3.5000	3.5000	3.5000		
2	3			3.6000	3.6000		
8	3				3.8000	3.8000	
3	3					4.0000	
4	3						4.4000
Sig.		.268	.157	.157	.157	.791	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

2. EMULGEL EKSTRAK**Tests of Normality^{b,c,d,e,f,g,h,i,j,k,l,m,n}**

Uji_dayasebar		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji_dayasebar_emulgel_eks	1	.253	3	.	.964	3	.637
F1_beban_0	1	.253	3	.	.964	3	.637
F1_beban_50	1	.175	3	.	1.000	3	1.000
F1_beban_100	1	.253	3	.	.964	3	.637
F1_beban_150	1	.253	3	.	.964	3	.637
F2_beban_0	1	.253	3	.	.964	3	.637
F2_beban_50	1	.175	3	.	1.000	3	1.000
F2_beban_100	1	.253	3	.	.964	3	.637
F2_beban_150	1	.175	3	.	1.000	3	1.000
F3_beban_0	1	.175	3	.	1.000	3	1.000
F3_beban_50	1	.175	3	.	1.000	3	1.000
F3_beban_100	1	.175	3	.	1.000	3	1.000
F3_beban_150	1	.253	3	.	.964	3	.637

Descriptives

Uji_dayasebar_emulgel_eks

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.8333	.15275	.08819	3.4539	4.2128	3.70	4.00
2	3	4.5000	.10000	.05774	4.2516	4.7484	4.40	4.60
3	3	5.0667	.15275	.08819	4.6872	5.4461	4.90	5.20
4	3	5.5333	.15275	.08819	5.1539	5.9128	5.40	5.70
5	3	3.6667	.15275	.08819	3.2872	4.0461	3.50	3.80
6	3	4.4000	.10000	.05774	4.1516	4.6484	4.30	4.50
7	3	4.8333	.15275	.08819	4.4539	5.2128	4.70	5.00
8	3	5.1000	.20000	.11547	4.6032	5.5968	4.90	5.30
9	3	3.4000	.10000	.05774	3.1516	3.6484	3.30	3.50
10	3	4.2000	.10000	.05774	3.9516	4.4484	4.10	4.30
11	3	4.6000	.10000	.05774	4.3516	4.8484	4.50	4.70
12	3	4.9667	.15275	.08819	4.5872	5.3461	4.80	5.10
Total	36	4.5083	.63398	.10566	4.2938	4.7228	3.30	5.70

Test of Homogeneity of Variances

Uji_dayasebar_emulgel_eks

Levene Statistic	df1	df2	Sig.
.391	11	24	.946

ANOVA

Uji_dayasebar_emulgel_eks

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13.608	11	1.237	64.542	.000
Within Groups	.460	24	.019		
Total	14.068	35			

Uji_dayasebar_emulgel_eksTukey HSD^a

Uji_dayasebar	N	Subset for alpha = 0.05							
		1	2	3	4	5	6	7	8
9	3	3.4000							
5	3	3.6667	3.6667						
1	3		3.8333	3.8333					
10	3			4.2000	4.2000				
6	3				4.4000				
2	3				4.5000	4.5000			
11	3				4.6000	4.6000	4.6000		
7	3					4.8333	4.8333	4.8333	
12	3						4.9667	4.9667	
3	3							5.0667	
8	3							5.1000	
4	3								5.5333
Sig.		.466	.934	.106	.058	.185	.106	.466	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 15. Data hasil uji daya lekat emulgel ekstrak etanol daun sirsak

1. BASIS EMULGEL

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_daya_lekat_basis	.292	3	.	.923	3	.463
F1	.292	3	.	.923	3	.463
F2	.343	3	.	.842	3	.220
F3	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptives

Hasil_daya_lekat_basis

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	3	3.1333	.04163	.02404	3.0299	3.2368	3.10	3.18
F2	3	3.6200	.04359	.02517	3.5117	3.7283	3.59	3.67
F3	3	4.2167	.01528	.00882	4.1787	4.2546	4.20	4.23
Total	9	3.6567	.47093	.15698	3.2947	4.0187	3.10	4.23

Test of Homogeneity of Variances

Hasil_daya_lekat_basis

Levene Statistic	df1	df2	Sig.
2.395	2	6	.172

ANOVA

Hasil_daya_lekat_basis

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.766	2	.883	685.267	.000
Within Groups	.008	6	.001		
Total	1.774	8			

Hasil_daya_lekat_basis

Tukey HSD^a

daya_lekat_basis	N	Subset for alpha = 0.05		
		1	2	3
F1	3	3.1333		
F2	3		3.6200	
F3	3			4.2167
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

2. EMULGEL EKSTRAK

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_daya_lekat_ekstrak	.328	3	.	.871	3	.298
F1	.328	3	.	.871	3	.298
F2	.253	3	.	.964	3	.637
F3	.204	3	.	.993	3	.843

a. Lilliefors Significance Correction

Descriptives

Hasil_daya_lekat_ekstrak

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	3	2.5033	.03215	.01856	2.4235	2.5832	2.48	2.54
F2	3	2.9567	.06110	.03528	2.8049	3.1084	2.89	3.01
F3	3	3.5333	.03512	.02028	3.4461	3.6206	3.50	3.57
Total	9	2.9978	.44874	.14958	2.6528	3.3427	2.48	3.57

Test of Homogeneity of Variances

Hasil_daya_lekat_ekstrak

Levene Statistic	df1	df2	Sig.
.964	2	6	.433

ANOVA

Hasil_daya_lekat_ekstrak

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.599	2	.799	399.739	.000
Within Groups	.012	6	.002		
Total	1.611	8			

Hasil_daya_lekat_ekstrak

Tukey HSD^a

daya_lekat_ekstrak	N	Subset for alpha = 0.05		
		1	2	3
F1	3	2.5033		
F2	3		2.9567	
F3	3			3.5333
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 16. Data hasil uji stabilitas pH emulgel ekstrak etanol daun sirsak

Replikasi	pH					
	F1		F2		F3	
	Sebelum	Sesudah	Sebelum	Sesudah	Sebelum	Sesudah
1	5,51	5,36	5,33	5,15	5,06	4,87
2	5,48	5,41	5,27	5,20	4,95	4,78
3	5,52	5,44	5,29	5,19	5,01	4,83
Rata-rata±SD	5,50±0,02	5,40±0,04	5,29±0,03	5,18±0,01	5,00±0,03	4,82±0,04

1. EMULGEL EKSTRAK

a. Formula 1

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.292	3	.	.923	3	.463
	2	.232	3	.	.980	3	.726

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	5.5033	.02082	.01202	5.4516	5.5550	5.48	5.52
2	3	5.4033	.04041	.02333	5.3029	5.5037	5.36	5.44
Total	6	5.4533	.06186	.02525	5.3884	5.5183	5.36	5.52

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
1.180	1	4	.338

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	F1_sebelum - F1_sesudah	.10000	.04359	.02517	-.00828	.20828	3.974	2	.058

b. Formula 2**Tests of Normality**

stabilitas_pH_ekstrak	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas 1	.253	3	.	.964	3	.637
2	.314	3	.	.893	3	.363

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	5.2967	.03055	.01764	5.2208	5.3726	5.27	5.33
2	3	5.1800	.02646	.01528	5.1143	5.2457	5.15	5.20
Total	6	5.2383	.06882	.02810	5.1661	5.3106	5.15	5.33

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.051	1	4	.833

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	F2_sebelum - F2_sesudah	.11667	.05696	.03283	-.02459	.25792	3.554	.071	

c. Formula 3**Tests of Normality**

stabilitas_pH_ekstrak	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas 1	.191	3	.	.997	3	.900
2	.196	3	.	.996	3	.878

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	5.0067	.05508	.03180	4.8699	5.1435	4.95	5.06
2	3	4.8267	.04509	.02603	4.7147	4.9387	4.78	4.87
Total	6	4.9167	.10838	.04425	4.8029	5.0304	4.78	5.06

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.090	1	4	.779

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	F3_sebelum - F3_sesudah	.18000	.01000	.00577	.15516	.20484	31.177	2	.001

2. BASIS EMULGEL

a. K(-) F1

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas_pH_basis	1	.175	3	.	1.000	3	1.000
	2	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas_pH_basis

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	5.8200	.17000	.09815	5.3977	6.2423	5.65	5.99
2	3	5.7933	.10066	.05812	5.5433	6.0434	5.70	5.90
Total	6	5.8067	.12580	.05136	5.6746	5.9387	5.65	5.99

Test of Homogeneity of Variances

Hasil_stabilitas_pH_basis

Levene Statistic	df1	df2	Sig.
.439	1	4	.544

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	F1_sebelum - F1_sesudah	.02667	.27025	.15603	-.64466	.69800	.171	2	.880

b. K(-) F2

Tests of Normality^{b,c,d}

stabilitas_pH_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas_pH_basis	1	.265	3	.	.953	3	.583
F2_sebelum	1	.265	3	.	.953	3	.583
F2_sesudah	1	.343	3	.	.842	3	.220

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_stabilitas_pH_basis when stabilitas_pH_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F2_sebelum when stabilitas_pH_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F2_sesudah when stabilitas_pH_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_stabilitas_pH_basis	1	3	5.5333	.06658	.53679	5.6987	5.46	5.59
	2	3	5.2800	.04359	5.1717	5.3883	5.25	5.33
Total	6	5.4067	.14760	.06026	5.2518	5.5616	5.25	5.59

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas_pH_basis	.671	1	4	.459

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	F2_sebelum - F2_sesudah	.25333	.10786	.06227	-.01460	.52127	4.068	2	.055

c. K(-) F3

Tests of Normality^{b,c,d}

stabilitas_pH_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.304	3	.	.907	3	.407
F3_sebelum	1	.304	3	.	.907	3	.407
F3_sesudah	1	.204	3	.	.993	3	.843

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_stabilitas when stabilitas_pH_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F3_sebelum when stabilitas_pH_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F3_sesudah when stabilitas_pH_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Hasil_stabilitas	1	3	5.2333	.04726	.02728	5.1159	5.3507	5.18	5.27
	2	3	5.0900	.10536	.06083	4.8283	5.3517	4.98	5.19
	Total	6	5.1617	.10722	.04377	5.0491	5.2742	4.98	5.27

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	1.270	1	4	.323

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	F3_sebelum - F3_sesudah	.14333	.06028	.03480	-.00640	.29307	4.119	2	.054

Lampiran 17. Data hasil uji stabilitas viskositas emulgel ekstrak etanol daun sirsak

Replikasi	Viskositas (dPa.s)					
	F1		F2		F3	
	Sebelum	Sesudah	Sebelum	Sesudah	Sebelum	Sesudah
1	170	140	280	220	300	280
2	190	170	250	230	320	300
3	200	150	290	240	350	310
Rata-rata (dPa.s±SD)	150,0±10,00	126,6±5,77	213,3±15,27	173,2±5,77	260,0±10,00	226,6±5,77

1. EMULGEL EKSTRAK

a. Formula 1

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	6	138.33	14.720	120	160
F1_sebelum	3	150.00	10.000	140	160
F1_sesudah	3	126.67	5.774	120	130

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F1_sebelum	F1_sesudah
N		6	3	3
Normal Parameters ^{a,b}	Mean	138.33	150.00	126.67
	Std. Deviation	14.720	10.000	5.774
Most Extreme Differences	Absolute	.214	.175	.385
	Positive	.214	.175	.282
	Negative	-.119	-.175	-.385
Test Statistic		.214	.175	.385
Asymp. Sig. (2-tailed)		.200 ^{c,d}	. ^{c,e}	. ^{c,e}

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

stabilitas_viskositas_eks		N	Mean Rank
Hasil_stabilitas	1	3	5.00
	2	3	2.00
	Total	6	
F1_sebelum	1	3	2.00
	Total	3 ^a	
F1_sesudah	1	3	2.00
	Total	3 ^a	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics^a

	F1_sesudah - F1_sebelum
Z	-1.633 ^b
Asymp. Sig. (2-tailed)	.102

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

b. Formula 2**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	6	193.33	24.221	170	230
F2_sebelum	3	213.33	15.275	200	230
F2_sesudah	3	173.33	5.774	170	180
stabilitas_viskositas_eks	6	1.50	.548	1	2

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F2_sebelum	F2_sesudah
N		6	3	3
Normal Parameters ^{a,b}	Mean	193.33	213.33	173.33
	Std. Deviation	24.221	15.275	5.774
Most Extreme Differences	Absolute	.209	.253	.385
	Positive	.209	.253	.385
	Negative	-.168	-.196	-.282
Test Statistic		.209	.253	.385
Asymp. Sig. (2-tailed)		.200 ^{c,d}	.c,e	.c,e

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	stabilitas_viskositas_eks	N	Mean Rank
Hasil_stabilitas	1	3	5.00
	2	3	2.00
	Total	6	
F2_sebelum	1	3	2.00
	Total	3 ^a	
F2_sesudah	1	3	2.00
	Total	3 ^a	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics^a

	F2_sesudah - F2_sebelum
Z	-1.604 ^b
Asymp. Sig. (2-tailed)	.109

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Formula 3**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	6	243.33	19.664	220	270
F3_sebelum	3	260.00	10.000	250	270
F3_sesudah	3	226.67	5.774	220	230

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F3_sebelum	F3_sesudah
N		6	3	3
Normal Parameters ^{a,b}	Mean	243.33	260.00	226.67
	Std. Deviation	19.664	10.000	5.774
Most Extreme Differences	Absolute	.251	.175	.385
	Positive	.251	.175	.282
	Negative	-.135	-.175	-.385
Test Statistic		.251	.175	.385
Asymp. Sig. (2-tailed)		.200 ^{c,d}	. ^{c,e}	. ^{c,e}

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	stabilitas_viskositas_eks	N	Mean Rank
Hasil_stabilitas	1	3	5.00
	2	3	2.00
	Total	6	
F3_sebelum	1	3	2.00
	Total	3 ^a	
F3_sesudah	1	3	2.00
	Total	3 ^a	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics^a

	F3_sesudah - F3_sebelum
Z	-1.633 ^b
Asymp. Sig. (2-tailed)	.102

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

2. BASIS EMULGEL**a. K(-) F1****Tests of Normality^{b,c,d}**

Stabilitas_viskositas_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_basis	1	.253	3	.	.964	3	.637
F1_sebelum	1	.253	3	.	.964	3	.637
F1_sesudah	1	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_basis when Stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F1_sebelum when Stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F1_sesudah when Stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_basis 1	3	186.67	15.275	8.819	148.72	224.61	170	200
2	3	153.33	15.275	8.819	115.39	191.28	140	170
Total	6	170.00	22.804	9.309	146.07	193.93	140	200

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_basis	.000	1	4	1.000

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	F1_sebelum - F1_sesudah	33.333	15.275	8.819	-4.612	71.279	3.780	2	.063

b. K(-) F2

Tests of Normality^{b,c,d}

Stabilitas_viskositas_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_basis	1	.292	3	.	.923	3	.463
F2_sebelum	1	.292	3	.	.923	3	.463
F2_sesudah	1	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_basis when Stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F2_sebelum when Stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F2_sesudah when Stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_basis 1	3	273.33	20.817	12.019	221.62	325.04	250	290
2	3	230.00	10.000	5.774	205.16	254.84	220	240
Total	6	251.67	27.869	11.377	222.42	280.91	220	290

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_basis	2.286	1	4	.205

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	F2_sebelum - F2_sesudah	43.333	20.817	12.019	-8.378	95.045	3.606	2	.069

c. K(-) F3

Tests of Normality^{b,c,d}

	stabilitas_viskositas_basis	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.219	3	.	.987	3	.780
F3_sebelum	1	.219	3	.	.987	3	.780
F3_sesudah	1	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_stabilitas when stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F3_sebelum when stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F3_sesudah when stabilitas_viskositas_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_stabilitas 1	3	323.33	25.166	14.530	260.82	385.85	300	350
2	3	296.67	15.275	8.819	258.72	334.61	280	310
Total	6	310.00	23.664	9.661	285.17	334.83	280	350

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	.643	1	4	.468

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	F3_sebelum - F3_sesudah	26.667	11.547	6.667	-2.018	55.351	4.000	2	.057

Lampiran 18. Data hasil uji stabilitas daya sebar emulgel ekstrak etanol daun sirsak

Formula	Replikasi	Daya sebar (cm)							
		Sebelum				Sesudah			
		0 g	50 g	100 g	150 g	0 g	50 g	100 g	150 g
F1	1	3,7	4,4	4,9	5,5	4,5	5	5,3	5,9
	2	3,8	4,5	5,2	5,7	4,1	4,8	5,4	5,8
	3	4	4,6	5,1	5,4	4,3	4,9	5,6	6
Rata-rata±SD		3,83±0,15	4,5±0,10	5,06±0,15	5,53±0,15	4,3±0,20	4,9±0,10	5,43±0,15	5,9±0,10
F2	1	3,5	4,4	4,8	5,1	4,2	4,8	5,2	6
	2	3,7	4,3	4,7	4,9	4	5	5,3	5,8
	3	3,8	4,5	5	5,3	4,4	4,8	5,5	5,7
Rata-rata±SD		3,66±0,15	4,4±0,10	4,83±0,15	5,1±0,20	4,3±0,20	4,86±0,20	5,33±0,15	5,83±0,15
F3	1	3,4	4,2	4,5	5,1	4	4,7	5,1	5,5
	2	3,3	4,1	4,6	5	3,9	4,5	5	5,7
	3	3,5	4,3	4,7	4,8	3,8	4,6	5,2	5,4
Rata-rata±SD		3,4±0,10	4,2±0,10	4,6±0,10	4,96±0,15	3,90±0,10	4,6±0,10	5,1±0,10	5,53±0,15

1. EMULGEL EKSTRAK

a. Formula 1

Tests of Normality

Stabilitas_dayasebar_eks		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
	2	.175	3	.	1.000	3	1.000
	3	.175	3	.	1.000	3	1.000
	4	.175	3	.	1.000	3	1.000
	5	.253	3	.	.964	3	.637
	6	.253	3	.	.964	3	.637
	7	.253	3	.	.964	3	.637
	8	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.833	.1528	.0882	3.454	4.213	3.7	4.0
2	3	4.300	.2000	.1155	3.803	4.797	4.1	4.5
3	3	4.500	.1000	.0577	4.252	4.748	4.4	4.6
4	3	4.900	.1000	.0577	4.652	5.148	4.8	5.0
5	3	5.067	.1528	.0882	4.687	5.446	4.9	5.2
6	3	5.433	.1528	.0882	5.054	5.813	5.3	5.6
7	3	5.533	.1528	.0882	5.154	5.913	5.4	5.7
8	3	5.900	.1000	.0577	5.652	6.148	5.8	6.0
Total	24	4.933	.6729	.1373	4.649	5.217	3.7	6.0

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.393	7	16	.893

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	F1_sebelum_0 - F1_sesudah_0	-.4667	.2887	.1667	-1.1838	.2504	-2.800	2	.107
Pair 2	F1_sebelum_50 - F1_sesudah_50	-.4000	.1732	.1000	-.8303	.0303	-4.000	2	.057
Pair 3	F1_sebelum_100 - F1_sesudah_100	-.3667	.1528	.0882	-.7461	.0128	-4.158	2	.053
Pair 4	F1_sebelum_150 - F1_sesudah_150	-.3667	.2517	.1453	-.9918	.2585	-2.524	2	.128

b. Formula 2**Tests of Normality**

	Stabilitas_dayasebar_eks	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
	2	.292	3	.	.923	3	.463
	3	.175	3	.	1.000	3	1.000
	4	.175	3	.	1.000	3	1.000
	5	.253	3	.	.964	3	.637
	6	.253	3	.	.964	3	.637
	7	.175	3	.	1.000	3	1.000
	8	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.667	.1528	.0882	3.287	4.046	3.5	3.8
2	3	4.233	.2082	.1202	3.716	4.750	4.0	4.4
3	3	4.400	.1000	.0577	4.152	4.648	4.3	4.5
4	3	4.800	.2000	.1155	4.303	5.297	4.6	5.0
5	3	4.833	.1528	.0882	4.454	5.213	4.7	5.0
6	3	5.333	.1528	.0882	4.954	5.713	5.2	5.5
7	3	5.100	.2000	.1155	4.603	5.597	4.9	5.3
8	3	5.800	.2000	.1155	5.303	6.297	5.6	6.0
Total	24	4.771	.6557	.1339	4.494	5.048	3.5	6.0

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.258	7	16	.962

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	F2_sebelum_0 - F2_sesudah_0	-.5667	.2517	.1453	-1.1918	.0585	-3.900	.060	
Pair 2	F2_sebelum_50 - F2_sesudah_50	-.4000	.3000	.1732	-1.1452	.3452	-2.309	.147	
Pair 3	F2_sebelum_100 - F2_sesudah_100	-.5000	.2646	.1528	-1.1572	.1572	-3.273	.082	
Pair 4	F2_sebelum_150 - F2_sesudah_150	-.7000	.3464	.2000	-1.5605	.1605	-3.500	.073	

c. Formula 3

Tests of Normality

	Stabilitas_dayasebar_eks	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.175	3	.	1.000	3	1.000
	2	.175	3	.	1.000	3	1.000
	3	.175	3	.	1.000	3	1.000
	4	.175	3	.	1.000	3	1.000
	5	.175	3	.	1.000	3	1.000
	6	.175	3	.	1.000	3	1.000
	7	.253	3	.	.964	3	.637
	8	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.400	.1000	.0577	3.152	3.648	3.3	3.5
2	3	3.900	.1000	.0577	3.652	4.148	3.8	4.0
3	3	4.200	.1000	.0577	3.952	4.448	4.1	4.3
4	3	4.600	.1000	.0577	4.352	4.848	4.5	4.7
5	3	4.600	.1000	.0577	4.352	4.848	4.5	4.7
6	3	5.100	.1000	.0577	4.852	5.348	5.0	5.2
7	3	4.967	.1528	.0882	4.587	5.346	4.8	5.1
8	3	5.533	.1528	.0882	5.154	5.913	5.4	5.7
Total	24	4.537	.6645	.1356	4.257	4.818	3.3	5.7

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.343	7	16	.922

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	F3_sebelum_0 - F3_sesudah_0	-5000	1732	1000	-9303	-0697	-5.000	2	038
Pair 2	F3_sebelum_50 - F3_sesudah_50	-4000	1000	.0577	-6484	-1516	-6.928	2	020
Pair 3	F3_sebelum_100 - F3_sesudah_100	-5000	1000	.0577	-7484	-2516	-8.660	2	013
Pair 4	F3_sebelum_150 - F3_sesudah_150	-5667	1528	0882	-9461	-1872	-6.425	2	023

2. BASIS EMULGEL

a. K(-) F1

Tests of Normality

stabilitas_dayasebar_ba sis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
	2	.175	3	.	1.000	3	1.000
	3	.175	3	.	1.000	3	1.000
	4	.175	3	.	1.000	3	1.000
	5	.175	3	.	1.000	3	1.000
	6	.253	3	.	.964	3	.637
	7	.175	3	.	1.000	3	1.000
	8	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.267	.1528	.0882	2.887	3.646	3.1	3.4
2	3	3.800	.2000	.1155	3.303	4.297	3.6	4.0
3	3	3.600	.1000	.0577	3.352	3.848	3.5	3.7
4	3	4.000	.1000	.0577	3.752	4.248	3.9	4.1
5	3	4.000	.1000	.0577	3.752	4.248	3.9	4.1
6	3	4.533	.1528	.0882	4.154	4.913	4.4	4.7
7	3	4.400	.1000	.0577	4.152	4.648	4.3	4.5
8	3	4.867	.1528	.0882	4.487	5.246	4.7	5.0
Total	24	4.058	.5115	.1044	3.842	4.274	3.1	5.0

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.448	7	16	.857

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	F1_sebelum_0 - F1_sesudah_0	-.5333	.2887	.1667	-1.2504	.1838	-3.200	.085	
Pair 2	F1_sebelum_50 - F1_sesudah_50	-.4000	.1732	.1000	-.8303	.0303	-4.000	.057	
Pair 3	F1_sebelum_100 - F1_sesudah_100	-.5333	.2517	.1453	-1.1585	.0918	-3.671	.067	
Pair 4	F1_sebelum_150 - F1_sesudah_150	-.4667	.2517	.1453	-1.0918	.1585	-3.212	.085	

b. K(-) F2**Tests of Normality**

	stabilitas_dayasebar_ba sis	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
	2	.175	3	.	1.000	3	1.000
	3	.175	3	.	1.000	3	1.000
	4	.175	3	.	1.000	3	1.000
	5	.175	3	.	1.000	3	1.000
	6	.314	3	.	.893	3	.363
	7	.175	3	.	1.000	3	1.000
	8	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.167	.1528	.0882	2.787	3.546	3.0	3.3
2	3	3.600	.1000	.0577	3.352	3.848	3.5	3.7
3	3	3.300	.1000	.0577	3.052	3.548	3.2	3.4
4	3	3.800	.2000	.1155	3.303	4.297	3.6	4.0
5	3	3.500	.1000	.0577	3.252	3.748	3.4	3.6
6	3	4.200	.2646	.1528	3.543	4.857	3.9	4.4
7	3	3.800	.2000	.1155	3.303	4.297	3.6	4.0
8	3	4.667	.2082	.1202	4.150	5.184	4.5	4.9
Total	24	3.754	.4899	.1000	3.547	3.961	3.0	4.9

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.969	7	16	.485

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	F2_sebelum_0 - F2_sesudah_0	-.4333	.2309	.1333	-1.0070	.1404	-3.250	2	.083
Pair 2	F2_sebelum_50 - F2_sesudah_50	-.5000	.2648	.1528	-1.1572	.1572	-3.273	2	.082
Pair 3	F2_sebelum_100 - F2_sesudah_100	-.7000	.3000	.1732	-1.4452	.0452	-4.041	2	.056
Pair 4	F2_sebelum_150 - F2_sesudah_150	-.8667	.3786	.2186	-1.8071	.0738	-3.965	2	.058

c. K(-) F3**Tests of Normality^{a,b,c,d,e,f,g,h,i,j}**

stabilitas_dayasebar_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.175	3	.	1.000	3	1.000
F3_sebelum_0	1	.175	3	.	1.000	3	1.000
F3_sesudah_0	1	.292	3	.	.923	3	.463
F3_sebelum_50	1	.253	3	.	.964	3	.637
F3_sesudah_50	1	.175	3	.	1.000	3	1.000
F3_sebelum_100	1	.253	3	.	.964	3	.637
F3_sesudah_100	1	.253	3	.	.964	3	.637
F3_sebelum_150	1	.253	3	.	.964	3	.637
F3_sesudah_150	1	.292	3	.	.923	3	.463

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_stabilitas 1	3	3.0000	.10000	.05774	2.7516	3.2484	2.90	3.10
2	3	3.3333	.20817	.12019	2.8162	3.8504	3.10	3.50
3	3	3.1667	.15275	.08819	2.7872	3.5461	3.00	3.30
4	3	3.6000	.10000	.05774	3.3516	3.8484	3.50	3.70
5	3	3.2667	.15275	.08819	2.8872	3.6461	3.10	3.40
6	3	3.9667	.15275	.08819	3.5872	4.3461	3.80	4.10
7	3	3.4667	.15275	.08819	3.0872	3.8461	3.30	3.60
8	3	4.3333	.20817	.12019	3.8162	4.8504	4.10	4.50
Total	24	3.5167	.44200	.09022	3.3300	3.7033	2.90	4.50

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	.677	7	16	.689

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	F3_sebelum_0 - F3_sesudah_0	-.33333	.15275	.08819	-.71279	.04612	-3.780	.063	
Pair 2	F3_sebelum_50 - F3_sesudah_50	-.43333	.25168	.14530	-1.05849	.19183	-2.982	.096	
Pair 3	F3_sebelum_100 - F3_sesudah_100	-.70000	.30000	.17321	-1.44524	.04524	-4.041	.056	
Pair 4	F3_sebelum_150 - F3_sesudah_150	-.86667	.35119	.20276	-1.73907	.00573	-4.274	.051	

Lampiran 19. Data hasil uji stabilitas daya lekat emulgel ekstrak etanol daun sirsak

Replikasi	Daya lekat (detik)					
	F1		F2		F3	
	Sebelum	Sesudah	Sebelum	Sesudah	Sebelum	Sesudah
1	02,54	02,42	03,01	02,82	03,57	03,45
2	02,48	02,43	02,89	02,83	03,50	03,41
3	02,49	02,37	02,97		03,53	03,48
Rata-rata	02,52±0,0	02,40±0,0	02,95±0,0	02,82±0,0	03,53±0,0	03,44±0,0
(%±SD)	3	3	6	1	3	3

1. EMULGEL EKSTRAK

a. Formula 1

Tests of Normality

stabilitas_dayalekat_eks		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.328	3	.	.871	3	.298
	2	.328	3	.	.871	3	.298

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	2.5033	.03215	.01856	2.4235	2.5832	2.48	2.54
2	3	2.4067	.03215	.01856	2.3268	2.4865	2.37	2.43
Total	6	2.4550	.06025	.02460	2.3918	2.5182	2.37	2.54

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.000	1	4	1.000

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	F1_sebelum - F1_sesudah	.09667	.04041	.02333	-.00373	.19706	4.143	.054	

b. Formula 2

Tests of Normality

stabilitas_dayalekat_eks		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
	2	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	2.9567	.06110	.03528	2.8049	3.1084	2.89	3.01
2	3	2.8200	.01000	.00577	2.7952	2.8448	2.81	2.83
Total	6	2.8883	.08448	.03449	2.7997	2.9770	2.81	3.01

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
5.327	1	4	.082

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	F2_sebelum - F2_sesudah	.13667	.06807	.03930	-.03243	.30576	3.478	2	.074

c. Formula 3

Tests of Normality

stabilitas_dayalekat_eks		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.204	3	.	.993	3	.843
	2	.204	3	.	.993	3	.843

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.5333	.03512	.02028	3.4461	3.6206	3.50	3.57
2	3	3.4467	.03512	.02028	3.3594	3.5339	3.41	3.48
Total	6	3.4900	.05692	.02324	3.4303	3.5497	3.41	3.57

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.000	1	4	1.000

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	F3_sebelum - F3_sesudah	.08667	.03512	.02028	-.00057	.17391	4.274	2	.051

2. BASIS EMULGEL

a. K(-) F1

Tests of Normality^{b,c,d}

Stabilitas_dayalekat_basis		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.292	3	.	.923	3	.463
F1_sebelum	1	.292	3	.	.923	3	.463
F1_sesudah	1	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_stabilitas when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F1_sebelum when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F1_sesudah when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_stabilitas 1	3	3.1333	.04163	.02404	3.0299	3.2368	3.10	3.18
2	3	3.0733	.02082	.01202	3.0216	3.1250	3.05	3.09
Total	6	3.1033	.04412	.01801	3.0570	3.1496	3.05	3.18

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	2.063	1	4	.224

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Difference				
					Lower				Upper
Pair 1	F1_sebelum - F1_sesudah	.06000	.02646	.01528	-.00572	.12572	3.928	2	.059

b. K(-) F2

Tests of Normality^{b,c,d}

	Stabilitas_dayalekat_basis	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_basis	1	.343	3	.	.842	3	.220
F2_sebelum	1	.343	3	.	.842	3	.220
F2_sesudah	1	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_basis when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F2_sebelum when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F2_sesudah when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_basis 1	3	3.6200	.04359	.02517	3.5117	3.7283	3.59	3.67
2	3	3.5533	.02082	.01202	3.5016	3.6050	3.53	3.57
Total	6	3.5867	.04761	.01944	3.5367	3.6366	3.53	3.67

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_basis	3.122	1	4	.152

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	F2_sebelum - F2_sesudah	.06667	.03055	.01764	-.00922	.14256	3.780	2	.063

c. K(-) F3

Tests of Normality^{b,c,d}

	Stabilitas_dayalekat_basis	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
F3_sebelum	1	.253	3	.	.964	3	.637
F3_sesudah	1	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

b. There are no valid cases for Hasil_stabilitas when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

c. There are no valid cases for F3_sebelum when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

d. There are no valid cases for F3_sesudah when Stabilitas_dayalekat_basis = 2.000. Statistics cannot be computed for this level.

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Hasil_stabilitas 1	3	4.2167	.01528	.00882	4.1787	4.2546	4.20	4.23
2	3	4.1433	.02517	.01453	4.0808	4.2058	4.12	4.17
Total	6	4.1800	.04427	.01807	4.1335	4.2265	4.12	4.23

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	.643	1	4	.468

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	F3_sebelum - F3_sesudah	.07333	.03215	.01856	-.00652	.15319	3.951	2	.058

Lampiran 20. Hasil SPSS uji aktivitas antibakteri terhadap bakteri *Staphylococcus aureus*

1. Hasil SPSS aktivitas antibakteri ekstrak

Tests of Normality^{b,c,d,e,f,g,h}

Perlakuan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Replikasi	Eks 3%	.175	3	.	1.000	3	1.000
Eks3	Eks 3%	.175	3	.	1.000	3	1.000
Eks6	Eks 3%	.253	3	.	.964	3	.637
Eks9	Eks 3%	.175	3	.	1.000	3	1.000
Eks12	Eks 3%	.253	3	.	.964	3	.637

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Replikasi	Eks 3%	3	10.5000	.50000	.28868	9.2579	11.7421	10.00	11.00
	Eks 6%	3	15.0833	.38188	.22048	14.1347	16.0320	14.75	15.50
	Eks 9%	3	16.0000	.25000	.14434	15.3790	16.6210	15.75	16.25
	Eks 12%	3	16.8333	.38188	.22048	15.8847	17.7820	16.50	17.25
	K(-)	3	.0000	.00000	.00000	.0000	.0000	.00	.00
	Total	15	11.6833	6.46451	1.66913	8.1034	15.2633	.00	17.25

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Replikasi	1.606	4	10	.247

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Replikasi	Between Groups	583.850	4	145.962	1207.966	.000
	Within Groups	1.208	10	.121		
	Total	585.058	14			

Replikasi

Tukey HSD^a

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
K(-)	3	.0000	10.5000		
Eks 3%	3				
Eks 6%	3			15.0833	
Eks 9%	3			16.0000	16.0000
Eks 12%	3				16.8333
Sig.		1.000	1.000	.055	.087

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

2. Hasil SPSS aktivitas antibakteri emulgel

Tests of Normality^{b,c,d,e,f,g,h,i}

Perlakuan		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Replikasi	F1 emulgel eks	.253	3	.	.964	3	.637
F1_emulgel_eks	F1 emulgel eks	.253	3	.	.964	3	.637
F2_emulgel_eks	F1 emulgel eks	.253	3	.	.964	3	.637
F3_emulgel_eks	F1 emulgel eks	.175	3	.	1.000	3	1.000
Eks6	F1 emulgel eks	.175	3	.	1.000	3	1.000
Kontrol_positif	F1 emulgel eks	.292	3	.	.923	3	.463

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Replikasi	F1 emulgel eks	3	14.0833	.38188	.22048	13.1347	15.0320	13.75	14.50
	F2 emulgel eks	3	13.0833	.38188	.22048	12.1347	14.0320	12.75	13.50
	F3 emulgel eks	3	12.5000	.25000	.14434	11.8790	13.1210	12.25	12.75
	Eks 6%	3	15.2500	.25000	.14434	14.6290	15.8710	15.00	15.50
	K(+)	3	37.0833	.52042	.30046	35.7905	38.3761	36.50	37.50
	K(-)	3	.0000	.00000	.00000	.0000	.0000	.00	.00
	Total	18	15.3333	11.29777	2.66291	9.7151	20.9516	.00	37.50

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Replikasi	2.197	5	12	.123

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Replikasi	Between Groups	2168.500	5	433.700	3785.018	.000
	Within Groups	1.375	12	.115		
	Total	2169.875	17			

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Replikasi	F1 emulgel eks	F2 emulgel eks	1.00000 [*]	.27639	.032	.0716	1.9284
		F3 emulgel eks	1.58333 [*]	.27639	.001	.6550	2.5117
		Eks 6%	-1.16667 [*]	.27639	.012	-2.0950	-.2383
		K(+)	-23.00000 [*]	.27639	.000	-23.9284	-22.0716
		K(-)	14.08333 [*]	.27639	.000	13.1550	15.0117
	F2 emulgel eks	F1 emulgel eks	-1.00000 [*]	.27639	.032	-1.9284	-.0716
		F3 emulgel eks	.58333	.27639	.343	-.3450	1.5117
		Eks 6%	-2.16667 [*]	.27639	.000	-3.0950	-1.2383
		K(+)	-24.00000 [*]	.27639	.000	-24.9284	-23.0716
		K(-)	13.08333 [*]	.27639	.000	12.1550	14.0117
	F3 emulgel eks	F1 emulgel eks	-1.58333 [*]	.27639	.001	-2.5117	-.6550
		F2 emulgel eks	-.58333	.27639	.343	-1.5117	.3450
		Eks 6%	-2.75000 [*]	.27639	.000	-3.6784	-1.8216
		K(+)	-24.58333 [*]	.27639	.000	-25.5117	-23.6550
		K(-)	12.50000 [*]	.27639	.000	11.5716	13.4284
	Eks 6%	F1 emulgel eks	1.16667 [*]	.27639	.012	.2383	2.0950
		F2 emulgel eks	2.16667 [*]	.27639	.000	1.2383	3.0950
		F3 emulgel eks	2.75000 [*]	.27639	.000	1.8216	3.6784
		K(+)	-21.83333 [*]	.27639	.000	-22.7617	-20.9050
		K(-)	15.25000 [*]	.27639	.000	14.3216	16.1784
	K(+)	F1 emulgel eks	23.00000 [*]	.27639	.000	22.0716	23.9284
		F2 emulgel eks	24.00000 [*]	.27639	.000	23.0716	24.9284
		F3 emulgel eks	24.58333 [*]	.27639	.000	23.6550	25.5117
		Eks 6%	21.83333 [*]	.27639	.000	20.9050	22.7617
		K(-)	37.08333 [*]	.27639	.000	36.1550	38.0117
	K(-)	F1 emulgel eks	-14.08333 [*]	.27639	.000	-15.0117	-13.1550
		F2 emulgel eks	-13.08333 [*]	.27639	.000	-14.0117	-12.1550
		F3 emulgel eks	-12.50000 [*]	.27639	.000	-13.4284	-11.5716
		Eks 6%	-15.25000 [*]	.27639	.000	-16.1784	-14.3216
		K(+)	-37.08333 [*]	.27639	.000	-38.0117	-36.1550

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

Replikasi

Tukey HSD^a

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
K(-)	3	.0000				
F3 emulgel eks	3		12.5000			
F2 emulgel eks	3		13.0833			
F1 emulgel eks	3			14.0833		
Eks 6%	3				15.2500	
K(+)	3					37.0833
Sig.		1.000	.343	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.