

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **A. Kesimpulan**

Berdasarkan hasil penelitian yang telah dilakukan maka dapat disimpulkan sebagai berikut :

Pertama, ekstrak etanol daun jambu biji (*Psidium guajava* L) dapat dibuat sebagai sediaan masker gel *peel-off* dengan berbagai variasi konsentrasi gelatin dan HPMC dengan memiliki sifat fisik dan stabilitas yang baik.

Kedua, semua formula sediaan masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L) memiliki aktivitas antibakteri terhadap *Staphylococcus epidermidis* ATCC 12228.

Ketiga, formula terbaik sediaan masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L) yang memiliki sifat fisik, stabilitas, dan aktivitas antibakteri yang baik terhadap *Staphylococcus epidermidis* ATCC 12228 adalah formula I dengan konsentrasi gelatin 5% dan HPMC 2,5% dengan rata-rata diameter daya hambat paling tinggi sebesar 17,14 mm.

#### **B. Saran**

Dari penelitian yang telah dilakukan, disarankan pada peneliti selanjutnya agar didapatkan hasil yang lebih maksimal sebagai berikut :

1. Perlu dilakukan percobaan variasi basis menggunakan basis jenis lain yang memiliki kemampuan *film forming* untuk mendapatkan konsentrasi basis yang lebih menyenangkan yang membantu dalam penggunaan dan aktivitas antibakteri.
2. Perlu dilakukan isolasi senyawa utama daun jambu biji yang memiliki aktivitas antibakteri, antivirus dan antifungi untuk memaksimalkan dalam membunuh mikroba patogen.
3. Perlu dilakukan uji aktivitas antibakteri masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L) menggunakan spesies bakteri penyebab jerawat yang berbeda.

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*L*

*A*

*M*

*P*

*I*

*R*

*A*

*N*

## Lampiran 1. Hasil determinasi



No : 323/DET/UPT-LAB/23/IV/2019  
Hal : SuratKeteranganDeterminasiTumbuhan

Menerangkanbahwa :

Nama : Dita Pratiwi P  
NIM : 21154455 A  
Fakultas : Farmasi Universitas Setia Budi

Telah mendeterminasikan tumbuhan : **Jambu biji (*Psidium guajava* L..)**

Determinasi berdasarkan Steenis: FLORA

1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 14b – 16a. golongan 10. 239b – 243b – 244b – 248b – 249b – 250a – 251b – 253b – 254b – 255a. familia 94. Myrtaceae. 1b – 2a. 2. Psidium. *Psidium guajava* L.

Deskripsi :

- Habitus : Pohon, tinggi 3 – 10 m.  
Batang : Percabangan monopodial, berkayu, kulit perang, licin, terkelupas dalam potongan. Ruas tangkai teratas segiempat tajam.  
**Daun** : **Tunggal, berhadapan, tepi rata. Daun muda berbulu abu-abu. Daun bertangkai pendek, bulat panjang atau memanjang, panjang 8,5 – 11 cm, lebar 4 – 5 cm. Daun penumpu tidak ada.**  
Bunga : Bunga terletak di ketiak, bertangkai, anak payung berbunga 1 – 3; tangkai 1 – 4 cm. Tabung kelopak berbentuk lonceng atau bentuk corong, panjang 0,5 cm; pinggirannya tidak rontok, panjang lk 1 cm. Daun mahkota bulat telur terbalik, panjang 1,5 – 2 cm, putih, segera rontok. Benang sari pada tonjolan dasar bunga yang berbulu, putih, pipih dan lebar, tangkai putik berwarna seperti mentega. Bakal buah tenggelam, beruang 4 – 5.  
Buah : Buah buni bundar, bentuk “peer” atau bentuk bulat telur terbalik, kuning, panjang 5 – 8,5 cm; daging buah putih kekuningan atau merah muda.  
Pustaka : Steenis C.G.G.J., Bloembergen S. Eyma P.J. (1978): *FLORA*, PT PradnyaParamita. Jl. KebonSirih 46.Jakarta Pusat, 1978.

Surakarta, 23 April 2019  
Tim determinasi  
  
Dra. Kartinah Wirjosebendjojo, SU.



**Lampiran 2. Daun jambu biji dan proses pembuatan ekstrak**

Daun jambu biji segar



Daun kering jambu biji



Serbuk daun jambu biji



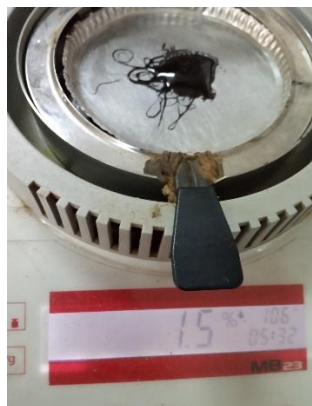
Uji kadar air serbuk



Maserasi &amp; penyaringan



Ekstrak daun jambu biji



Uji kadar air ekstrak



Uji bebas alkohol

**Lampiran 3. Identifikasi kandungan senyawa kimia**

Uji Tanin



Uji Flavonoid



Uji Alkaloid

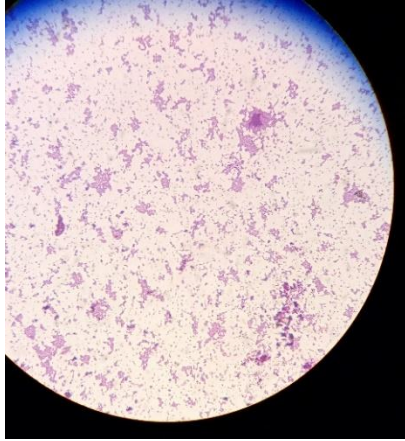


Uji Steroid

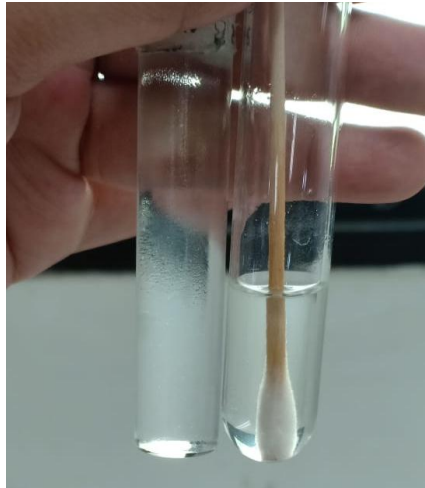


Uji Saponin

**Lampiran 4. Gambar Identifikasi bakteri *Staphylococcus epidermidis* ATCC 12228**



Identifikasi dengan pewarnaan Gram



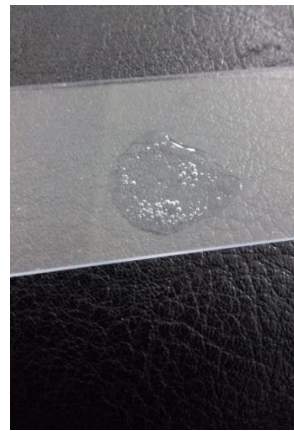
Pembuatan suspensi bakteri



Identifikasi biokimia menggunakan media MSA



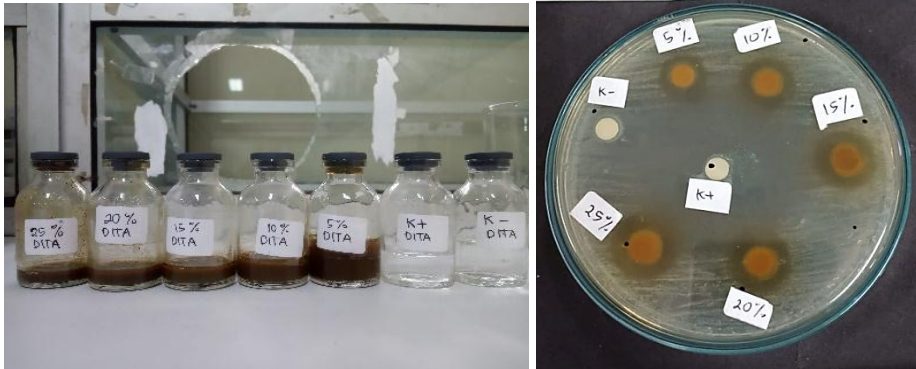
Uji Koagulase



Uji Katalase

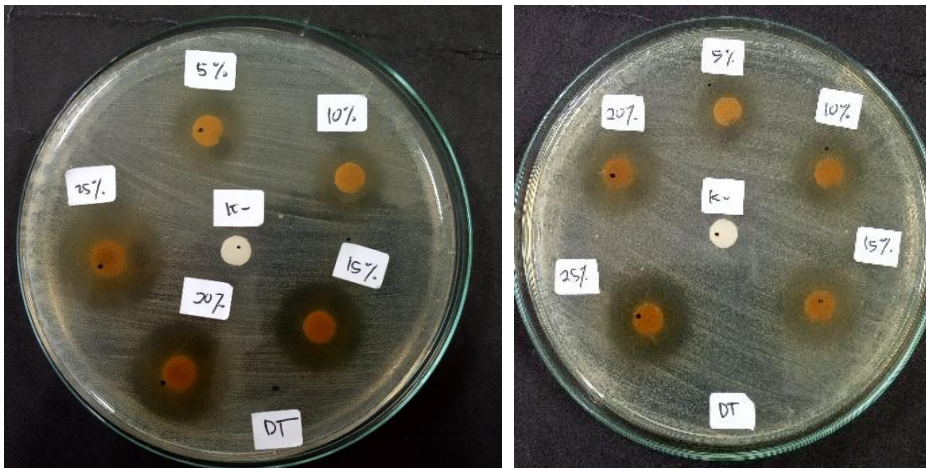


### Lampiran 5. Orientasi diameter daya hambat ekstrak etanol daun jambu biji



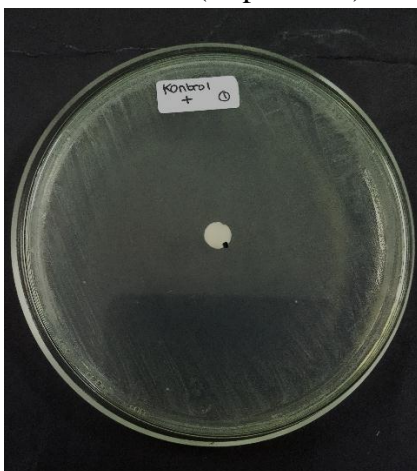
Larutan konsentrasi ekstrak etanol daun jambu biji

Hasil orientasi uji daya hambat ekstrak etanol daun jambu biji, K+ dan K- (Replikasi 1)

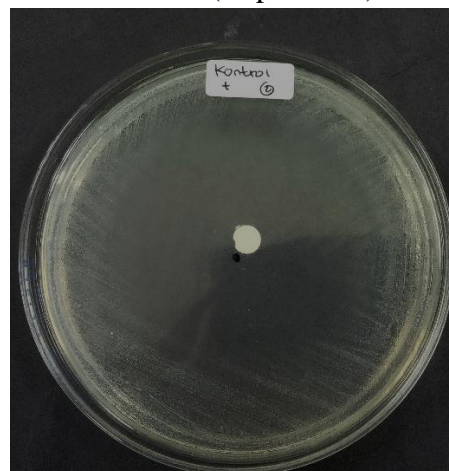


Hasil orientasi uji daya hambat ekstrak etanol daun jambu biji dan K- (DMSO) (Replikasi 2)

(Replikasi 3)



Hasil orientasi uji daya hambat K+ (Klindamisin 1,2%) (Replikasi 2)



(Replikasi 3)

**Lampiran 6. Sediaan masker gel *peel-off***

Sediaan masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)



Uji waktu mengering pada kaca

**Lampiran 7. Uji stabilitas masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**



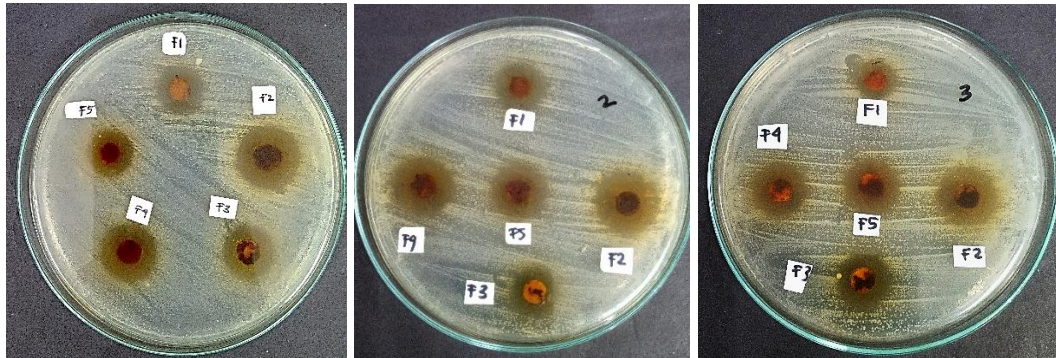
Sediaan masker gel *peel-off* ekstrak etanol daun jambu biji setelah uji stabilitas



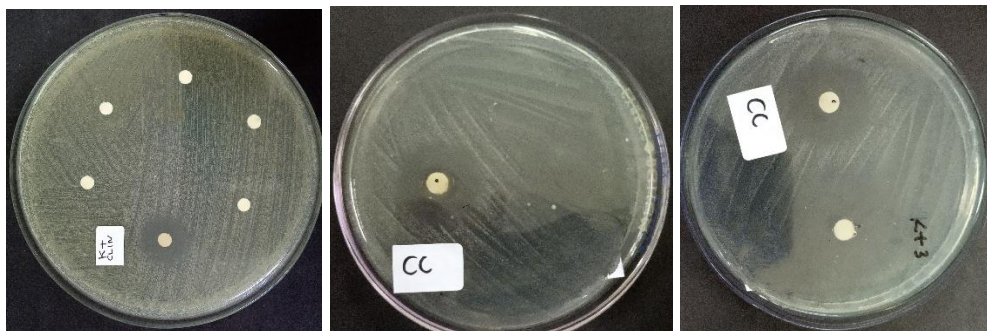
Waktu mengering pada kaca dan kulit



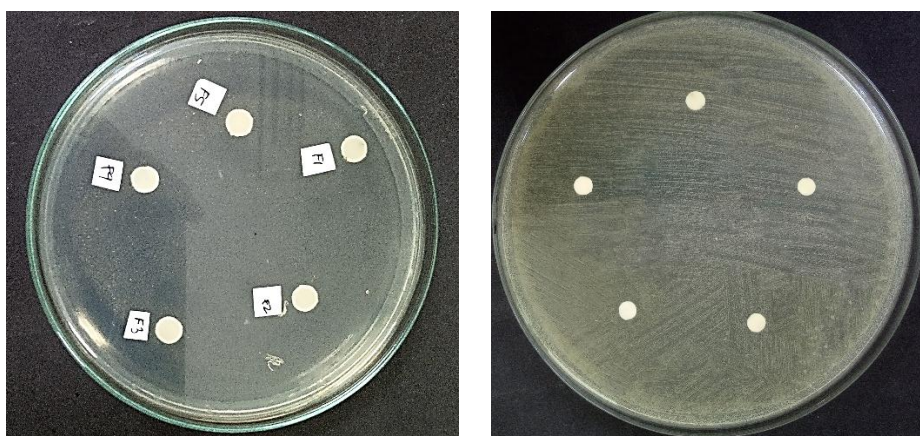
**Lampiran 8. Uji aktivitas antibakteri masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**



Hasil uji daya hambat masker gel *peel-off* ekstrak etanol daun jambu biji  
(Replikasi 1)                      (Replikasi 2)                      (Replikasi 3)



Hasil uji daya hambat masker gel *peel-off* Klindamisin 1,2% (K+) & K-  
(Replikasi 1)                      (Replikasi 2)                      (Replikasi 3)



Hasil uji daya hambat basis masker gel *peel-off* (K-)  
(Replikasi 2)                      (Replikasi 3)

**Lampiran 9. Perhitungan rendemen daun jambu biji kering**

Daun jambu biji kering yang diperoleh dari daun jambu biji yang masih basah seberat 4800 gram adalah 1300 gram. Rendemen yang didapat sebesar :

Persentase rendemen daun jambu biji

$$\begin{aligned}\text{Rendemen} &= \frac{\text{Bobot kering (gram)}}{\text{Bobot basah (gram)}} \times 100 \% \\ &= \frac{1300}{4800} \times 100\% \\ &= 27,08 \%\end{aligned}$$



**Lampiran 10. Perhitungan rendemen serbuk terhadap daun jambu biji kering**

Serbuk daun jambu biji yang di peroleh dari daun jambu biji kering seberat 1300 gram adalah 1150 gram. Rendemen yang didapatkan sebesar :

Persentasi rendemen serbuk daun jambu biji

$$\begin{aligned}\text{Rendemen} &= \frac{\text{Bobot serbuk (gram)}}{\text{Bobot kering ( gram)}} \times 100 \% \\ &= \frac{1150}{1300} \times 100\% \\ &= 88,46 \%\end{aligned}$$

### Lampiran 11. Perhitungan Pembuatan Seri konsentrasi ekstrak etanol daun jambu biji (*Psidium guajava* L)

Pembuatan seri konsentrasi ekstrak etanol daun jambu biji dengan pelarut DMSO 5%

1. Konsentrasi 25% = 25% b/v  
= 25 gram/100 ml  
= 2,5 gram/10 ml

Menimbang 2,5 gram ekstrak ekstrak, kemudian dilarutkan dengan DMSO 5% ad 10 ml

2. Konsentrasi 20%  
 $V_1 \times N_1 = V_2 \times N_2$   
 $V_1 \times 25 = V_2 \times 20$   
 $V_1 = \frac{200}{25}$   
 $V_1 = 8 \text{ ml}$

Dipipet seri konsentrasi 25% ekstrak sebanyak 8 ml, kemudian ditambahkan dengan DMSO 5% ad 10 ml.

3. Konsentrasi 15%  
 $V_1 \times N_1 = V_2 \times N_2$   
 $V_1 \times 20 = V_2 \times 15$   
 $V_1 = \frac{150}{20}$   
 $V_1 = 7,5 \text{ ml}$

Dipipet seri konsentrasi 20% ekstrak sebanyak 7,5 ml, kemudian ditambahkan dengan DMSO 5% ad 10 ml.

4. Konsentrasi 10%  
 $V_1 \times N_1 = V_2 \times N_2$   
 $V_1 \times 15 = V_2 \times 10$   
 $V_1 = \frac{100}{15}$   
 $V_1 = 6,7 \text{ ml}$

Dipipet seri konsentrasi 15% ekstrak sebanyak 6,7 ml, kemudian ditambahkan dengan DMSO 5% ad 10 ml.

5. Konsentrasi 5%  
 $V_1 \times N_1 = V_2 \times N_2$   
 $V_1 \times 10 = V_2 \times 5$   
 $V_1 = \frac{50}{10}$   
 $V_1 = 5 \text{ ml}$

Dipipet seri konsentrasi 10% ekstrak sebanyak 5 ml, kemudian ditambahkan dengan DMSO 5% ad 10 ml.

**Lampiran 12. Data dan statistik uji pH masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

PH			
T0			
Replikasi	F I	F II	F III
1	6.35	6.33	6.35
2	6.37	6.35	6.37
3	6.39	6.30	6.36
Rata-rata	6.37	6.33	6.36
SD	0.02	0.03	0.01

**Uji statistik *kolmogorov smirnov*, analisis *one way anova* uji pH masker gel *peel-off* ekstrak etanol daun jambu biji**

**NPar Tests**

**One-Sample Kolmogorov-Smirnov Test**

		pH
N		9
Normal Parameters <sup>a,b</sup>	Mean	6.3522
	Std. Deviation	.02587
	Absolute	.244
Most Extreme Differences	Positive	.135
	Negative	-.244
Kolmogorov-Smirnov Z		.731
Asymp. Sig. (2-tailed)		.660

a. Test distribution is Normal.

b. Calculated from data.

**Oneway**

**Test of Homogeneity of Variances**

pH			
Levene Statistic	df1	df2	Sig.
.864	2	6	.468

## ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.003	2	.002	4.088	.076
Within Groups	.002	6	.000		
Total	.005	8			

## Multiple Comparisons

Dependent Variable: pH

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula I	Formula II	.04333	.01587	.076	-.0054	.0920
	Formula III	.01000	.01587	.810	-.0387	.0587
Formula II	Formula I	-.04333	.01587	.076	-.0920	.0054
	Formula III	-.03333	.01587	.170	-.0820	.0154
Formula III	Formula I	-.01000	.01587	.810	-.0587	.0387
	Formula II	.03333	.01587	.170	-.0154	.0820

## Homogeneous Subsets

pH

Tukey HSD<sup>a</sup>

Formula	N	Subset for alpha = 0.05
		1
Formula II	3	6.3267
Formula III	3	6.3600
Formula I	3	6.3700
Sig.		.076

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 13. Data dan statistik uji viskositas masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

VISKOSITAS (dPas)			
T0			
Replikasi	FI	FII	FIII
1	100	400	150
2	100	400	150
3	100	400	150
Rata-rata	100	400	150
SD	0.00	0.00	0.00

Uji statistik *Kolmogorov smirnov*, analisis *Kruskal-Wallis* uji viskositas masker gel *peel-off* ekstrak etanol daun jambu biji

**NPar Tests**

**One-Sample Kolmogorov-Smirnov Test**

		Uji Viskositas
N		9
Normal Parameters <sup>a,b</sup>	Mean	216.6667
	Std. Deviation	139.19411
	Absolute	.351
Most Extreme Differences	Positive	.351
	Negative	-.239
Kolmogorov-Smirnov Z		1.052
Asymp. Sig. (2-tailed)		.218

a. Test distribution is Normal.

b. Calculated from data.

**Test of Homogeneity of Variances**

Uji Viskositas

Levene Statistic	df1	df2	Sig.
.	2	.	.

## Kruskal-Wallis Test

Ranks			
	Formula Masker Gel Peel-off	N	Mean Rank
Uji Viskositas	Formula I	3	2.00
	Formula II	3	8.00
	Formula III	3	5.00
	Total	9	

Test Statistics <sup>a,b</sup>	
	Uji Viskositas
Chi-Square	8.000
Df	2
Asymp. Sig.	.018

a. Kruskal Wallis Test

b. Grouping Variable: Formula  
Masker Gel Peel-off

**Lampiran 14. Data dan statistik uji daya lekat masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

<b>DAYA LEKAT (detik)</b>			
<b>T 0</b>			
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>
<b>1</b>	<b>19.58</b>	<b>33.03</b>	<b>29.49</b>
<b>2</b>	<b>19.51</b>	<b>33.10</b>	<b>29.47</b>
<b>3</b>	<b>19.45</b>	<b>33.18</b>	<b>29.40</b>
<b>Rata-rata</b>	<b>19.51</b>	<b>33.10</b>	<b>29.45</b>
<b>SD</b>	<b>0.07</b>	<b>0.08</b>	<b>0.05</b>

**Uji statistik *Kolmogorov-smirnov*, analisis *one way anova* uji daya lekat masker gel *peel-off* ekstrak etanol daun jambu biji**

### **NPar Tests**

#### **One-Sample Kolmogorov-Smirnov Test**

		<b>Uji Daya Lekat</b>
<b>N</b>		9
<b>Normal Parameters<sup>a,b</sup></b>	<b>Mean</b>	27.3567
	<b>Std. Deviation</b>	6.09137
	<b>Absolute</b>	.298
<b>Most Extreme Differences</b>	<b>Positive</b>	.232
	<b>Negative</b>	-.298
<b>Kolmogorov-Smirnov Z</b>		.894
<b>Asymp. Sig. (2-tailed)</b>		.401

a. Test distribution is Normal.

b. Calculated from data.

### **Oneway**

#### **Test of Homogeneity of Variances**

Uji Daya Lekat

<b>Levene Statistic</b>	<b>df1</b>	<b>df2</b>	<b>Sig.</b>
.165	2	6	.852

## ANOVA

Uji Daya Lekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	296.814	2	148.407	36795.149	.000
Within Groups	.024	6	.004		
Total	296.838	8			

## Post Hoc Tests

## Multiple Comparisons

Dependent Variable: Uji Daya Lekat

Tukey HSD

(I) Formula Masker Gel Peel-off	(J) Formula Masker Gel Peel-off	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula I	Formula II	-13.59000*	.05185	.000	-13.7491	-13.4309
	Formula III	-9.94000*	.05185	.000	-10.0991	-9.7809
Formula II	Formula I	13.59000*	.05185	.000	13.4309	13.7491
	Formula III	3.65000*	.05185	.000	3.4909	3.8091
Formula III	Formula I	9.94000*	.05185	.000	9.7809	10.0991
	Formula II	-3.65000*	.05185	.000	-3.8091	-3.4909

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

## Homogeneous Subsets

## Uji Daya Lekat

Tukey HSD<sup>a</sup>

Formula Masker Gel Peel-off	N	Subset for alpha = 0.05		
		1	2	3
Formula I	3	19.5133		
Formula III	3		29.4533	
Formula II	3			33.1033
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.



Lampiran 15. Data dan statistik uji daya sebar masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)

<b>DAYA SEBAR (cm)</b>			
<b>Minggu 0</b>			
<b>Beban 44,6 g</b>			
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>
<b>1</b>	<b>4.93</b>	<b>2.73</b>	<b>4.35</b>
<b>2</b>	<b>4.83</b>	<b>2.7</b>	<b>4.38</b>
<b>3</b>	<b>5</b>	<b>2.78</b>	<b>4.46</b>
<b>Rata-rata</b>	<b>4.92</b>	<b>2.74</b>	<b>4.40</b>
<b>SD</b>	<b>0.09</b>	<b>0.04</b>	<b>0.06</b>
<b>Beban 94.6 g</b>			
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>
<b>1</b>	<b>5.28</b>	<b>2.98</b>	<b>4.73</b>
<b>2</b>	<b>5.3</b>	<b>2.95</b>	<b>4.65</b>
<b>3</b>	<b>5.3</b>	<b>2.93</b>	<b>4.68</b>
<b>Rata-rata</b>	<b>5.29</b>	<b>2.95</b>	<b>4.69</b>
<b>SD</b>	<b>0.01</b>	<b>0.03</b>	<b>0.04</b>
<b>Beban 144.6 g</b>			
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>
<b>1</b>	<b>5.5</b>	<b>3.08</b>	<b>4.9</b>
<b>2</b>	<b>5.48</b>	<b>3.03</b>	<b>4.98</b>
<b>3</b>	<b>5.5</b>	<b>3.03</b>	<b>4.98</b>
<b>Rata-rata</b>	<b>5.49</b>	<b>3.05</b>	<b>4.95</b>
<b>SD</b>	<b>0.01</b>	<b>0.03</b>	<b>0.05</b>
<b>Beban 194.6 g</b>			
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>
<b>1</b>	<b>5.6</b>	<b>3.1</b>	<b>5.1</b>
<b>2</b>	<b>5.55</b>	<b>3.1</b>	<b>5.1</b>
<b>3</b>	<b>5.6</b>	<b>3.1</b>	<b>5.1</b>
<b>Rata-rata</b>	<b>5.58</b>	<b>3.10</b>	<b>5.10</b>
<b>SD</b>	<b>0.03</b>	<b>0.00</b>	<b>0.00</b>

**Uji statistik *Kolmogorov-smirnov*, analisis *two way anova* uji daya sebar masker gel *peel-off* ekstrak etanol daun jambu biji**  
**NPar Tests**

**One-Sample Kolmogorov-Smirnov Test**

		Nilai daya sebar
N		36
Normal Parameters <sup>a,b</sup>	Mean	4.3553
	Std. Deviation	1.05201
	Absolute	.217
Most Extreme Differences	Positive	.217
	Negative	-.194
Kolmogorov-Smirnov Z		1.302
Asymp. Sig. (2-tailed)		.068

a. Test distribution is Normal.

b. Calculated from data.

**Univariate Analysis of Variance**

**Levene's Test of Equality of Error Variances<sup>a</sup>**

Dependent Variable: Nilai daya sebar

F	df1	df2	Sig.
2.946	11	24	.013

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula + Beban +

Formula \* Beban

**Tests of Between-Subjects Effects**

Dependent Variable: Nilai daya sebar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	38.698 <sup>a</sup>	11	3.518	2281.975	.000
Intercept	682.864	1	682.864	442938.813	.000
Formula	36.823	2	18.412	11942.623	.000
Beban	1.740	3	.580	376.276	.000
Formula * Beban	.135	6	.023	14.609	.000
Error	.037	24	.002		
Total	721.600	36			
Corrected Total	38.735	35			

a. R Squared = .999 (Adjusted R Squared = .999)

**Lampiran 16. Data dan statistik uji waktu mengering masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

<b>LAMA WAKTU MENGERING PADA KACA (menit)</b>			
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>
<b>1</b>	<b>20</b>	<b>25</b>	<b>25</b>
<b>2</b>	<b>20</b>	<b>25</b>	<b>25</b>
<b>3</b>	<b>20</b>	<b>25</b>	<b>25</b>
<b>Rata-rata</b>	<b>20.00</b>	<b>25.00</b>	<b>25.00</b>
<b>SD</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Uji statistik *Kolmogorov-smirnov*, analisis *Kruskal-wallis* uji waktu mengering pada kaca masker gel *peel-off* ekstrak etanol daun jambu biji

### **NPar Tests**

#### **One-Sample Kolmogorov-Smirnov Test**

		<b>Lama Waktu Mengering</b>
N		9
Normal Parameters <sup>a,b</sup>	Mean	25.00
	Std. Deviation	4.330
	Absolute	.209
Most Extreme Differences	Positive	.209
	Negative	-.209
Kolmogorov-Smirnov Z		.628
Asymp. Sig. (2-tailed)		.826

a. Test distribution is Normal.

b. Calculated from data.

#### **Test of Homogeneity of Variances**

Lama Waktu Mengering

<b>Levene Statistic</b>	<b>df1</b>	<b>df2</b>	<b>Sig.</b>
.	2	.	.

## Kruskal-Wallis Test

Ranks			
	Formula Masker Gel Peel-off	N	Mean Rank
Lama Waktu Mengering	Formula I	3	8.00
	Formula II	3	2.00
	Formula III	3	5.00
	Total	9	

### Test Statistics<sup>a,b</sup>

	Lama Waktu Mengering
Chi-Square	8.000
df	2
Asymp. Sig.	.018

a. Kruskal Wallis Test

b. Grouping Variable: Formula Masker Gel Peel-off

<b>LAMA WAKTU MENGERING PADA KULIT (menit)</b>			
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>
<b>1</b>	<b>27.55</b>	<b>18.18</b>	<b>23.45</b>
<b>2</b>	<b>27.53</b>	<b>18.05</b>	<b>23.23</b>
<b>3</b>	<b>27.48</b>	<b>18.36</b>	<b>23.35</b>
<b>Rata-rata</b>	<b>27.52</b>	<b>18.20</b>	<b>23.34</b>
<b>SD</b>	<b>0.04</b>	<b>0.16</b>	<b>0.11</b>

Uji statistik *Kolmogorov-smirnov*, analisis *one way anova* uji waktu mengering pada kulit masker gel *peel-off* ekstrak etanol daun jambu biji

## NPar Tests

### One-Sample Kolmogorov-Smirnov Test

		Lama Waktu Mering
N		9
Normal Parameters <sup>a,b</sup>	Mean	23.0200
	Std. Deviation	4.04556
	Absolute	.209
Most Extreme Differences	Positive	.209
	Negative	-.198
Kolmogorov-Smirnov Z		.626
Asymp. Sig. (2-tailed)		.828

a. Test distribution is Normal.

b. Calculated from data.

## Oneway

### Test of Homogeneity of Variances

Lama Waktu Mering

Levene Statistic	df1	df2	Sig.
1.501	2	6	.296

## ANOVA

Lama Waktu Mengering

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	130.857	2	65.429	5211.130	.000
Within Groups	.075	6	.013		
Total	130.933	8			

## Post Hoc Tests

## Multiple Comparisons

Dependent Variable: Lama Waktu Mengering

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula I	Formula II	9.32333*	.09149	.000	9.0426	9.6040
	Formula III	4.17667*	.09149	.000	3.8960	4.4574
Formula II	Formula I	-9.32333*	.09149	.000	-9.6040	-9.0426
	Formula III	-5.14667*	.09149	.000	-5.4274	-4.8660
Formula III	Formula I	-4.17667*	.09149	.000	-4.4574	-3.8960
	Formula II	5.14667*	.09149	.000	4.8660	5.4274

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

## Homogeneous Subsets

Lama Waktu Mengering

Tukey HSD<sup>a</sup>

Formula Masker Gel Peel-off	N	Subset for alpha = 0.05		
		1	2	3
Formula II	3	18.1967		
Formula III	3		23.3433	
Formula I	3			27.5200
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 17. Data dan statistik uji stabilitas pH masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

UJI STABILITAS PH							
T0				T20			
Replikasi	FI	FII	FIII	Replikasi	FI	FII	FIII
1	6.35	6.33	6.35	1	6.20	6.31	6.25
2	6.37	6.35	6.37	2	6.25	6.31	6.27
3	6.39	6.30	6.36	3	6.30	6.26	6.30
Rata-rata	6.37	6.33	6.36	Rata-rata	6.25	6.29	6.27
SD	0.02	0.03	0.01	SD	0.05	0.03	0.03

Uji statistik *Kolmogorov-smirnov*, analisis *independent sample t-test* uji stabilitas pH masker gel *peel-off* ekstrak etanol daun jambu biji

**NPar Tests**

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
pH Formula I	6	6.3100	.07403	6.20	6.39

**One-Sample Kolmogorov-Smirnov Test**

		pH Formula I
N		6
Normal Parameters <sup>a,b</sup>	Mean	6.3100
	Std. Deviation	.07403
	Absolute	.206
Most Extreme Differences	Positive	.140
	Negative	-.206
Kolmogorov-Smirnov Z		.503
Asymp. Sig. (2-tailed)		.962

a. Test distribution is Normal.

b. Calculated from data.

**T-Test****Group Statistics**

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
pH Formula I	T0	3	6.3700	.02000	.01155
	T20	3	6.2500	.05000	.02887

**Independent Samples Test**

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
pH Formula I	Equal variances assumed	1.241	.328	3.860	4	.018	.12000	.03109	.03368	.20632
	Equal variances not assumed			3.860	2.624	.039	.12000	.03109	.01253	.22747

**NPar Tests****Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
pH Formula II	6	6.3100	.03033	6.26	6.35

**One-Sample Kolmogorov-Smirnov Test**

		pH Formula II
N		6
Normal Parameters <sup>a,b</sup>	Mean	6.3100
	Std. Deviation	.03033
	Absolute	.204
Most Extreme Differences	Positive	.167
	Negative	-.204
Kolmogorov-Smirnov Z		.500
Asymp. Sig. (2-tailed)		.964

a. Test distribution is Normal.

b. Calculated from data.



## T-Test

### Group Statistics

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
pH Formula II	T0	3	6.3267	.02517	.01453
	T20	3	6.2933	.02887	.01667

### Independent Samples Test

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	T	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
pH Formula II	Equal variances assumed	.235	.653	1.508	4	.206	.03333	.02211	-.02806	.09472
	Equal variances not assumed			1.508	3.927	.207	.03333	.02211	-.02851	.09518

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
pH Formula III	6	6.3167	.05046	6.25	6.37

### One-Sample Kolmogorov-Smirnov Test

		pH Formula III
N		6
Normal Parameters <sup>a,b</sup>	Mean	6.3167
	Std. Deviation	.05046
	Absolute	.246
Most Extreme Differences	Positive	.156
	Negative	-.246
Kolmogorov-Smirnov Z		.601
Asymp. Sig. (2-tailed)		.862

a. Test distribution is Normal.

b. Calculated from data.

### T-Test

#### Independent Samples Test

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	t	df	Sig. (2- tailed)	Mean Differen ce	Std. Error Differ ence	95% Confidence Interval of the Difference	
									Lower	Upper
pH Formula III	Equal variances assumed	1.923	.238	5.543	4	.050	.08667	.01563	.04326	.13008
	Equal variances not assumed			5.543	2.616	.016	.08667	.01563	.03251	.14082

**Lampiran 18. Data dan statistik uji stabilitas viskositas masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

UJI STABILITAS VISKOSITAS (dPas)							
T0				T20			
Replikasi	FI	FII	FIII	Replikasi	FI	FII	FIII
1	100	400	150	1	80	400	100
2	100	400	150	2	80	400	100
3	100	400	150	3	80	400	100
Rata-rata	100	400	150	Rata-rata	80	400	100
SD	0.00	0.00	0.00	SD	0.00	0.00	0.00

Uji statistik *Kolmogorov-smirnov*, analisis *mann-whitney* uji stabilitas viskositas masker *gelpeel-off* ekstrak etanol daun jambu biji

### NPar Tests

#### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Viskositas FI	6	90.0000	10.95445	80.00	100.00

#### One-Sample Kolmogorov-Smirnov Test

		Viskositas FI
N		6
Normal Parameters <sup>a,b</sup>	Mean	90.0000
	Std. Deviation	10.95445
	Absolute	.319
Most Extreme Differences	Positive	.319
	Negative	-.319
Kolmogorov-Smirnov Z		.782
Asymp. Sig. (2-tailed)		.573

a. Test distribution is Normal.

b. Calculated from data.

## Mann-Whitney Test

	Waktu Pemeriksaan	N	Mean Rank	Sum of Ranks
	T0	3	5.00	15.00
Viskositas FI	T20	3	2.00	6.00
	Total	6		

	Viskositas FI
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.236
Asymp. Sig. (2-tailed)	.025
Exact Sig. [2*(1-tailed Sig.)]	.100 <sup>b</sup>

a. Grouping Variable: Waktu Pemeriksaan

b. Not corrected for ties.

## NPar Tests

	N	Mean	Std. Deviation	Minimum	Maximum
Viskositas FII	6	375.0000	27.38613	350.00	400.00

	Viskositas FII	
N	6	
Normal Parameters <sup>a,b</sup>	Mean	375.0000
	Std. Deviation	27.38613
	Absolute	.319
Most Extreme Differences	Positive	.319
	Negative	-.319
Kolmogorov-Smirnov Z	.782	
Asymp. Sig. (2-tailed)	.573	

a. Test distribution is Normal.

b. Calculated from data.

## Mann-Whitney Test

Ranks				
	Waktu Pemeriksaan	N	Mean Rank	Sum of Ranks
	T0	3	5.00	15.00
Viskositas FII	T20	3	2.00	6.00
	Total	6		

Test Statistics <sup>a</sup>	
	Viskositas FII
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.236
Asymp. Sig. (2-tailed)	.025
Exact Sig. [2*(1-tailed Sig.)]	.100 <sup>b</sup>

a. Grouping Variable: Waktu Pemeriksaan

b. Not corrected for ties.

## NPar Tests

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
Viskositas FIII	6	125.0000	27.38613	100.00	150.00

One-Sample Kolmogorov-Smirnov Test		
		Viskositas FIII
N		6
Normal Parameters <sup>a,b</sup>	Mean	125.0000
	Std. Deviation	27.38613
	Absolute	.319
Most Extreme Differences	Positive	.319
	Negative	-.319
Kolmogorov-Smirnov Z		.782
Asymp. Sig. (2-tailed)		.573

a. Test distribution is Normal.

b. Calculated from data.

## Mann-Whitney Test

Ranks

	Waktu Pemeriksaan	N	Mean Rank	Sum of Ranks
	T0	3	5.00	15.00
Viskositas FIII	T20	3	2.00	6.00
	Total	6		

Test Statistics<sup>a</sup>

	Viskositas FIII
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.236
Asymp. Sig. (2-tailed)	.025
Exact Sig. [2*(1-tailed Sig.)]	.100 <sup>b</sup>

a. Grouping Variable: Waktu Pemeriksaan

b. Not corrected for ties.

**Lampiran 19. Data dan statistik uji stabilitas daya lekat masker gel *peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

UJI STABILITAS DAYA LEKAT (detik)							
T0				T20			
Replikasi	FI	FII	FIII	Replikasi	FI	FII	FIII
1	19.58	33.03	29.49	1	18.28	32.13	27.25
2	19.51	33.10	29.47	2	18.24	32.15	27.27
3	19.45	33.18	29.40	3	18.2	32.09	27.22
Rata-rata	19.51	33.10	29.45	Rata-rata	18.24	32.12	27.25
SD	0.07	0.08	0.05	SD	0.04	0.03	0.03

Uji statistik *Kolmogorov-smirnov*, analisis *independent sample t-test* uji stabilitas daya lekat masker gel *peel-off* ekstrak etanol daun jambu biji

### NPar Tests

#### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya Lekat Formula I	6	18.8767	.69910	18.20	19.58

#### One-Sample Kolmogorov-Smirnov Test

		Daya Lekat Formula I
N		6
Normal Parameters <sup>a,b</sup>	Mean	18.8767
	Std. Deviation	.69910
	Absolute	.303
Most Extreme Differences	Positive	.303
	Negative	-.294
Kolmogorov-Smirnov Z		.743
Asymp. Sig. (2-tailed)		.639

a. Test distribution is Normal.

b. Calculated from data.

## T-Test

### Group Statistics

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Daya Lekat Formula I	T0	3	19.5133	.06506	.03756
	T20	3	18.2400	.04000	.02309

### Independent Samples Test

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Daya Lekat Formula I	Equal variances assumed	.526	.509	28.876	4	.000	1.27333	.04410	1.15090	1.39576
	Equal variances not assumed			28.876	3.323	.000	1.27333	.04410	1.14041	1.40626



## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya Lekat Formula II	6	32.6133	.53921	32.09	33.18

### One-Sample Kolmogorov-Smirnov Test

		Daya Lekat Formula II
N		6
Normal Parameters <sup>a,b</sup>	Mean	32.6133
	Std. Deviation	.53921
	Absolute	.305
Most Extreme Differences	Positive	.305
	Negative	-.280
Kolmogorov-Smirnov Z		.747
Asymp. Sig. (2-tailed)		.632

a. Test distribution is Normal.

b. Calculated from data.

## T-Test

### Group Statistics

		Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Daya Lekat Formula II	T0		3	33.1033	.07506	.04333
	T20		3	32.1233	.03055	.01764

### Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Daya Lekat Formula II	Equal variances assumed	1.313	.316	20.947	4	.000	.98000	.04679	.85010	1.10990
	Equal variances not assumed			20.947	2.645	.001	.98000	.04679	.81914	1.14086

### NPar Tests

#### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya Lekat Formula III	6	28.3500	1.20912	27.22	29.49

#### One-Sample Kolmogorov-Smirnov Test

		Daya Lekat Formula III
N		6
Normal Parameters <sup>a,b</sup>	Mean	28.3500
	Std. Deviation	1.20912
	Absolute	.314
Most Extreme Differences	Positive	.314
	Negative	-.307
Kolmogorov-Smirnov Z		.769
Asymp. Sig. (2-tailed)		.595

a. Test distribution is Normal.

b. Calculated from data.

**T-Test****Group Statistics**

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Daya Lekat Formula III	T0	3	29.4533	.04726	.02728
	T20	3	27.2467	.02517	.01453

**Independent Samples Test**

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	t	df	Sig. (2- tailed)	Mean Difference	Std. Error Differe nce	95% Confidence Interval of the Difference	
									Lower	Upper
Daya Lekat Formula III	Equal variances assumed	1.910	.239	71.385	4	.000	2.20667	.03091	2.12084	2.29249
	Equal variances not assumed			71.385	3.050	.000	2.20667	.03091	2.10919	2.30414



Beban 194.6 g				Beban 194.6 g			
Replikasi	FI	FII	FIII	Replikasi	FI	FII	FIII
1	5.6	3.1	5.1	1	22.05	3.28	5.55
2	5.55	3.1	5.1	2	22.22	3.23	5.5
3	5.6	3.1	5.1	3	22.11	3.18	5.45
Rata-rata	5.58	3.10	5.10	Rata-rata	22.13	3.23	5.50
SD	0.03	0.00	0.00	SD	0.09	0.05	0.05

Uji statistik *Kolmogorov-smirnov*, analisis *independent sample t-test* uji stabilitas daya sebar masker *gelpeel-off* ekstrak etanol daun jambu biji

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya Sebar FI Beban 44.6	6	4.9783	.08750	4.83	5.08
Daya Sebar FI Beban 94.6	6	5.3167	.03141	5.28	5.37
Daya Sebar FI Beban 144.6	6	5.4983	.02137	5.47	5.53
Daya Sebar FI Beban 194.6	6	5.6050	.03271	5.55	5.65

### One-Sample Kolmogorov-Smirnov Test

		Daya Sebar FI Beban 44.6	Daya Sebar FI Beban 94.6	Daya Sebar FI Beban 144.6	Daya Sebar FI Beban 194.6
N		6	6	6	6
Normal	Mean	4.9783	5.3167	5.4983	5.6050
Parameters <sup>a,b</sup>	Std. Deviation	.08750	.03141	.02137	.03271
Most Extreme Differences	Absolute	.264	.202	.198	.273
	Positive	.123	.202	.138	.157
	Negative	-.264	-.131	-.198	-.273
Kolmogorov-Smirnov Z		.648	.495	.484	.668
Asymp. Sig. (2-tailed)		.795	.967	.973	.764

a. Test distribution is Normal.

b. Calculated from data.

## T-Test

**Group Statistics**

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Daya Sebar FI Beban 44.6	T0	3	4.9200	.08544	.04933
	T20	3	5.0367	.04041	.02333
Daya Sebar FI Beban 94.6	T0	3	5.2933	.01155	.00667
	T20	3	5.3400	.02646	.01528
Daya Sebar FI Beban 144.6	T0	3	5.4933	.01155	.00667
	T20	3	5.5033	.03055	.01764
Daya Sebar FI Beban 194.6	T0	3	5.5833	.02887	.01667
	T20	3	5.6267	.02082	.01202

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	T	Df	Sig. (2- tailed)	Mean Differen ce	Std. Error Differen ce	95% Confidence Interval of the Difference	
									Lower	Upper
Daya Sebar FI Beban 44.6	Equal variances assumed	1.273	.322	-2.138	4	.099	-.11667	.05457	-.26817	.03484
	Equal variances not assumed			-2.138	2.852	.127	-.11667	.05457	-.29553	.06220
Daya Sebar FI Beban 94.6	Equal variances assumed	3.226	.147	-2.800	4	.049	-.04667	.01667	-.09294	-.00039
	Equal variances not assumed			-2.800	2.735	.075	-.04667	.01667	-.10273	.00940
Daya Sebar FI	Equal variances assumed	2.571	.184	-.530	4	.624	-.01000	.01886	-.06235	.04235

Beban 144.6	Equal variances not assumed			-.530	2.560	.638	-.01000	.01886	-.07629	.05629
Daya Sebar FI Beban 194.6	Equal variances assumed	.818	.417	-2.109	4	.103	-.04333	.02055	-.10038	.01372
	Equal variances not assumed			-2.109	3.637	.110	-.04333	.02055	-.10270	.01603

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya Sebar FII Beban 44.6	6	2.7800	.05727	2.70	2.85
Daya Sebar FII Beban 94.6	6	2.9917	.05492	2.93	3.08
Daya Sebar FII Beban 144.6	6	3.0883	.08010	3.03	3.23
Daya Sebar FII Beban 194.6	6	3.1650	.07791	3.10	3.28

### One-Sample Kolmogorov-Smirnov Test

	Daya Sebar FII Beban 44.6	Daya Sebar FII Beban 94.6	Daya Sebar FII Beban 144.6	Daya Sebar FII Beban 194.6
N	6	6	6	6
Normal Parameters <sup>a,b</sup>	Mean 2.7800 Std. .05727 Deviation	2.9917 .05492	3.0883 .08010	3.1650 .07791
Most Extreme Differences	Absolute .167 Positive .142 Negative -.167	.251 .251 -.131	.267 .267 -.233	.298 .298 -.202
Kolmogorov-Smirnov Z	.408	.614	.653	.730
Asymp. Sig. (2-tailed)	.996	.845	.787	.661

a. Test distribution is Normal.

b. Calculated from data.

## T-Test

**Group Statistics**

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Daya Sebar FII Beban 44.6	T0	3	2.7367	.04041	.02333
	T20	3	2.8233	.03055	.01764
Daya Sebar FII Beban 94.6	T0	3	2.9533	.02517	.01453
	T20	3	3.0300	.05000	.02887
Daya Sebar FII Beban 144.6	T0	3	3.0467	.02887	.01667
	T20	3	3.1300	.10000	.05774
Daya Sebar FII Beban 194.6	T0	3	3.1000	.00000	.00000
	T20	3	3.2300	.05000	.02887

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2- tailed)	Mean Differen ce	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Daya Sebar FII Beban 44.6	Equal variances assumed	.232	.655	-2.963	4	.051	-.08667	.02925	-.16788	-.00546
	Equal variances not assumed			-2.963	3.723	.045	-.08667	.02925	-.17032	-.00302
Daya Sebar FII Beban 94.6	Equal variances assumed	.731	.441	-2.372	4	.077	-.07667	.03232	-.16640	.01306
	Equal variances not assumed			-2.372	2.952	.100	-.07667	.03232	-.18046	.02713



Daya Sebar FII Beban 144.6	Equal variances assumed	1.730	.259	-1.387	4	.238	-.08333	.06009	-.25018	.08351
	Equal variances not assumed			-1.387	2.331	.283	-.08333	.06009	-.30970	.14304
Daya Sebar FII Beban 194.6	Equal variances assumed	4.000	.116	-4.503	4	.061	-.13000	.02887	-.21015	-.04985
	Equal variances not assumed			-4.503	2.000	.046	-.13000	.02887	-.25421	-.00579

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya Sebar FIII Beban 44.6	6	4.6450	.27559	4.35	4.93
Daya Sebar FIII Beban 94.6	6	4.9067	.24287	4.65	5.15
Daya Sebar FIII Beban 144.6	6	5.1533	.22160	4.90	5.38
Daya Sebar FIII Beban 194.6	6	5.3000	.22136	5.10	5.55

### One-Sample Kolmogorov-Smirnov Test

		Daya Sebar FIII Beban 44.6	Daya Sebar FIII Beban 94.6	Daya Sebar FIII Beban 144.6	Daya Sebar FIII Beban 194.6
N		6	6	6	6
Normal Parameters <sup>a,b</sup>	Mean	4.6450	4.9067	5.1533	5.3000
	Std. Deviation	.27559	.24287	.22160	.22136
Most Extreme Differences	Absolute	.272	.287	.287	.317
	Positive	.249	.267	.283	.317
	Negative	-.272	-.287	-.287	-.251
Kolmogorov-Smirnov Z		.665	.703	.704	.776
Asymp. Sig. (2-tailed)		.768	.706	.705	.583

a. Test distribution is Normal.

b. Calculated from data.

## T-Test

**Group Statistics**

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Daya Sebar FIII Beban 44.6	T0	3	4.3967	.05686	.03283
	T20	3	4.8933	.04041	.02333
Daya Sebar FIII Beban 94.6	T0	3	4.6867	.04041	.02333
	T20	3	5.1267	.02517	.01453
Daya Sebar FIII Beban 144.6	T0	3	4.9533	.04619	.02667
	T20	3	5.3533	.02517	.01453
Daya Sebar FIII Beban 194.6	T0	3	5.1000	.00000	.00000
	T20	3	5.5000	.05000	.02887

**Independent Samples Test**

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2- tailed)	Mean Difference	Std. Error Differe nce	95% Confidence Interval of the Difference	
									Lower	Upper
Daya Sebar FIII Beban 44.6	Equal variances assumed	.567	.493	-12.331	4	.000	-.49667	.04028	-.60849	-.38484
	Equal variances not assumed			-12.331	3.610	.000	-.49667	.04028	-.61343	-.37991
Daya Sebar FIII Beban 94.6	Equal variances assumed	.685	.454	-16.007	4	.000	-.44000	.02749	-.51632	-.36368
	Equal variances not assumed			-16.007	3.348	.000	-.44000	.02749	-.52255	-.35745
Daya Sebar FIII Beban 144.6	Equal variances assumed	2.393	.197	-13.172	4	.000	-.40000	.03037	-.48432	-.31568



**Lampiran 21. Data dan statistik uji stabilitas waktu mengering masker gel  
*peel-off* ekstrak etanol daun jambu biji (*Psidium guajava* L)**

UJI STABILITAS WAKTU MENGERING PADA KACA (menit)							
T0				T20			
Replikasi	FI	FII	FIII	Replikasi	FI	FII	FIII
1	30	20	25	1	30	25	25
2	30	20	25	2	30	25	25
3	30	20	25	3	30	25	25
Rata-rata	30.00	20.00	20.00	Rata-rata	30.00	25.00	25.00
SD	0.00	0.00	0.00	SD	0.00	0.00	0.00

Uji statistik Kolmogorov smirnov, analisis *Mann-whitney* uji stabilitas waktu mengering pada kaca masker gel *peel-off* ekstrak etanol daun jambu biji  
NPar Tests

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
Lama Waktu Mering Kaca FI	6	30.0000	.00000	30.00	30.00

**One-Sample Kolmogorov-Smirnov Test**

		Lama Waktu Mering Kaca FI
N		6
Normal Parameters <sup>a,b</sup>	Mean	30.0000
	Std. Deviation	.00000 <sup>c</sup>

a. Test distribution is Normal.

b. Calculated from data.

c. The distribution has no variance for this variable. One-Sample Kolmogorov-Smirnov Test cannot be performed.

**Mann-Whitney Test**

Ranks

	Waktu Pemeriksaan	N	Mean Rank	Sum of Ranks
Lama Waktu Mengering Kaca FI	T0	3	3.50	10.50
	T20	3	3.50	10.50
	Total	6		

#### Test Statistics<sup>a</sup>

	Lama Waktu Mengering Kaca FI
Mann-Whitney U	4.500
Wilcoxon W	10.500
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>b</sup>

a. Grouping Variable: Waktu Pemeriksaan

b. Not corrected for ties.

## NPar Tests

#### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Waktu Mengering Kaca FII	6	22.5000	2.73861	20.00	25.00

#### One-Sample Kolmogorov-Smirnov Test

	Waktu Mengering Kaca FII	
N	6	
Normal Parameters <sup>a,b</sup>	Mean	22.5000
	Std. Deviation	2.73861
	Absolute	.319
Most Extreme Differences	Positive	.319
	Negative	-.319
Kolmogorov-Smirnov Z	.782	
Asymp. Sig. (2-tailed)	.573	

a. Test distribution is Normal.

b. Calculated from data.

## Mann-Whitney Test

**Ranks**

	Waktu Pemeriksaan	N	Mean Rank	Sum of Ranks
Waktu Mengering Kaca FII	T0	3	5.00	15.00
	T20	3	2.00	6.00
	Total	6		

**Test Statistics<sup>a</sup>**

	Waktu Mengering Kaca FIII
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.236
Asymp. Sig. (2-tailed)	.025
Exact Sig. [2*(1-tailed Sig.)]	.100 <sup>b</sup>

a. Grouping Variable: Waktu Pemeriksaan

b. Not corrected for ties.

**NPar Tests****Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
Lama Waktu Mengering Kaca FIII	6	25.0000	.00000	25.00	25.00

**One-Sample Kolmogorov-Smirnov Test**

	Lama Waktu Mengering Kaca FIII	
N	6	
Normal Parameters <sup>a,b</sup>	Mean	25.0000
	Std. Deviation	.00000 <sup>c</sup>

a. Test distribution is Normal.

b. Calculated from data.

c. The distribution has no variance for this variable. One-Sample Kolmogorov-Smirnov Test cannot be performed.

**Mann-Whitney Test**

**Ranks**

	Waktu Pemeriksaan	N	Mean Rank	Sum of Ranks
Lama Waktu Mengering Kaca FIII	T0	3	3.50	10.50
	T20	3	3.50	10.50
	Total	6		

**Test Statistics<sup>a</sup>**

	Lama Waktu Mengering Kaca FIII
Mann-Whitney U	4.500
Wilcoxon W	10.500
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>b</sup>

a. Grouping Variable: Waktu Pemeriksaan

b. Not corrected for ties.

UJI STABILITAS WAKTU MENGERING PADA KULIT (menit)							
T0				T20			
Replikasi	FI	FII	FIII	Replikasi	FI	FII	FIII
1	27.55	18.18	23.45	1	29.08	20.22	24.54
2	27.53	18.05	23.23	2	29.22	20.15	24.47
3	27.48	18.36	23.35	3	29.11	20.17	24.35
Rata-rata	27.52	18.20	23.34	Rata-rata	30.14	20.18	24.45
SD	0.04	0.16	0.11	SD	0.07	0.04	0.10

Uji statistik *Kolmogorov-smirnov*, analisis *independent sample t-test* uji stabilitas waktu mengering pada kulit masker gel *peel-off* ekstrak etanol daun jambu biji

### NPar Tests

#### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Waktu Mengering Kulit FI	6	24.8233	2.95464	22.05	27.55

#### One-Sample Kolmogorov-Smirnov Test

		Waktu Mengering Kulit FI
N		6
Normal Parameters <sup>a,b</sup>	Mean	24.8233
	Std. Deviation	2.95464
	Absolute	.316
Most Extreme Differences	Positive	.311
	Negative	-.316
Kolmogorov-Smirnov Z		.773
Asymp. Sig. (2-tailed)		.588

a. Test distribution is Normal.

b. Calculated from data.



## T-Test

**Group Statistics**

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Waktu Mengering Kulit FI	T0	3	27.5200	.03606	.02082
	T20	3	22.1267	.08622	.04978

**Independent Samples Test**

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Waktu Mengering Kulit FI	2.040	.226	99.960	4	.000	5.39333	.05395	5.24353	5.54314	
Equal variances assumed			99.960	2.67	.000	5.39333	.05395	5.20937	5.57730	
Equal variances not assumed				9						

## NPar Tests

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
Waktu Mengering Kulit FI	6	17.6883	.56595	17.15	18.36

**One-Sample Kolmogorov-Smirnov Test**

		Waktu Mering Kulit FII
N		6
Normal Parameters <sup>a,b</sup>	Mean	17.6883
	Std. Deviation	.56595
	Absolute	.296
Most Extreme Differences	Positive	.296
	Negative	-.239
Kolmogorov-Smirnov Z		.725
Asymp. Sig. (2-tailed)		.669

a. Test distribution is Normal.

b. Calculated from data.

**T-Test****Group Statistics**

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Waktu Mering Kulit FII	T0	3	18.1967	.15567	.08988
	T20	3	17.1800	.03606	.02082

**Independent Samples Test**

	Levene's Test for Equality of Variances	t-test for Equality of Means								
		F	Sig.	T	Df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Waktu Mering Kulit FII	Equal variances assumed	3.035	.156	11.020	4	.000	1.01667	.09226	.76052	1.27281
	Equal variances not assumed			11.020	2.214	.006	1.01667	.09226	.65431	1.37902

## NPar Tests

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Waktu Mengering Kulit FIII	6	21.3983	2.13265	19.35	23.45

### One-Sample Kolmogorov-Smirnov Test

		Waktu Mengering Kulit FIII
N		6
Normal Parameters <sup>a,b</sup>	Mean	21.3983
	Std. Deviation	2.13265
Most Extreme Differences	Absolute	.308
	Positive	.308
	Negative	-.305
Kolmogorov-Smirnov Z		.755
Asymp. Sig. (2-tailed)		.619

a. Test distribution is Normal.

b. Calculated from data.

## T-Test

### Group Statistics

	Waktu Pemeriksaan	N	Mean	Std. Deviation	Std. Error Mean
Waktu Mengering Kulit FIII	T0	3	23.3433	.11015	.06360
	T20	3	19.4533	.09609	.05548

## Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	T	df	Sig. (2- tailed)	Mean Difference	Std. Error Differen ce	95% Confidence Interval of the Difference	
									Lower	Upper
Waktu Mengerin g Kulit FIII	Equal variances assumed	.023	.886	46.094	4	.000	3.89000	.08439	3.65569	4.12431
	Equal variances not assumed			46.094	3.9 28	.000	3.89000	.08439	3.65397	4.12603

**Lampiran 22. Data dan statistik uji daya hambat antibakteri masker gel peel-off ekstrak etanol daun jambu biji (*Psidium guajava* L)**

<b>UJI AKTIVITAS ANTIBAKTERI</b>					
<b>Replikasi</b>	<b>FI</b>	<b>FII</b>	<b>FIII</b>	<b>KK</b>	<b>K-</b>
<b>1</b>	<b>17.11</b>	<b>14.08</b>	<b>16.9</b>	<b>22.07</b>	<b>0</b>
<b>2</b>	<b>17.17</b>	<b>14.01</b>	<b>16.95</b>	<b>22.23</b>	<b>0</b>
<b>3</b>	<b>17.15</b>	<b>14.03</b>	<b>16.85</b>	<b>22.36</b>	<b>0</b>
<b>Rata-rata</b>	<b>17.14</b>	<b>14.04</b>	<b>16.90</b>	<b>22.22</b>	<b>0.00</b>
<b>SD</b>	<b>0.03</b>	<b>0.04</b>	<b>0.05</b>	<b>0.15</b>	<b>0.00</b>

Uji statistik *Kolmogorov-smirnov*, analisis *one way anova* uji antibakteri masker gel peel-off ekstrak etanol daun jambu biji  
NPar Tests

**Descriptive Statistics**

	<b>N</b>	<b>Mean</b>	<b>Std. Deviation</b>	<b>Minimum</b>	<b>Maximum</b>
Diameter daya hambat	15	14.0607	7.77164	.00	22.36

**One-Sample Kolmogorov-Smirnov Test**

		<b>Diameter daya hambat</b>
N		15
Normal Parameters <sup>a,b</sup>	Mean	14.0607
	Std. Deviation	7.77164
	Absolute	.297
Most Extreme Differences	Positive	.165
	Negative	-.297
Kolmogorov-Smirnov Z		1.152
Asymp. Sig. (2-tailed)		.141

a. Test distribution is Normal.

b. Calculated from data.

## Oneway

### ANOVA

Diameter daya hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3484.451	6	580.742	40130.230	.000
Within Groups	.203	14	.014		
Total	3484.653	20			

### Test of Homogeneity of Variances

Diameter daya hambat

Levene Statistic	df1	df2	Sig.
2.892	4	10	.079

## Post Hoc Tests

### Multiple Comparisons

Dependent Variable: Diameter daya hambat

Tukey HSD

(I) Formula Masker Gel Peel-off	(J) Formula Masker Gel Peel-off	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula I	Formula II	3.10333*	.05869	.000	2.9102	3.2965
	Formula III	.24333*	.05869	.013	.0502	.4365
	Kontrol Klindamsin	-5.07667*	.05869	.000	-5.2698	-4.8835
	Kontrol Negatif	17.14333*	.05869	.000	16.9502	17.3365
Formula II	Formula I	-3.10333*	.05869	.000	-3.2965	-2.9102
	Formula III	-2.86000*	.05869	.000	-3.0532	-2.6668
	Kontrol Klindamsin	-8.18000*	.05869	.000	-8.3732	-7.9868
	Kontrol Negatif	14.04000*	.05869	.000	13.8468	14.2332
Formula III	Formula I	-.24333*	.05869	.013	-.4365	-.0502
	Formula II	2.86000*	.05869	.000	2.6668	3.0532
	Kontrol Klindamsin	-5.32000*	.05869	.000	-5.5132	-5.1268
	Kontrol Negatif	16.90000*	.05869	.000	16.7068	17.0932
Kontrol Klindamsin	Formula I	5.07667*	.05869	.000	4.8835	5.2698
	Formula II	8.18000*	.05869	.000	7.9868	8.3732
	Formula III	5.32000*	.05869	.000	5.1268	5.5132
	Kontrol Negatif	22.22000*	.05869	.000	22.0268	22.4132
	Formula I	-17.14333*	.05869	.000	-17.3365	-16.9502

Kontrol Negatif	Formula II	-14.04000*	.05869	.000	-14.2332	-13.8468
	Formula III	-16.90000*	.05869	.000	-17.0932	-16.7068
	Kontrol Klindamsin	-22.22000*	.05869	.000	-22.4132	-22.0268

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

## Homogeneous Subsets

### Diameter daya hambat

Tukey HSD<sup>a</sup>

Formula Masker Gel Peel-off	N	Subset for alpha = 0.05				
		1	2	3	4	5
Kontrol Negatif	3	.0000				
Formula II	3		14.0400			
Formula III	3			16.9000		
Formula I	3				17.1433	
Kontrol Klindamsin	3					22.2200
Sig.		1.000	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 23. Data dan statistik orientasi uji daya hambat antibakteri ekstrak etanol daun jambu biji (*Psidium guajava* L)**

ORIENTASI UJI AKTIVITAS ANTIBAKTERI							
Replikasi	5%	10%	15%	20%	25%	K+	K-
1	12.31	14.33	17.17	17.3	18.35	46.07	0
2	12.57	14.75	17.45	17.48	18.57	46.19	0
3	12.44	14.54	17.30	17.40	18.47	46.17	0.00
Rata-rata	12.44	14.54	17.31	17.39	18.46	46.13	0.00
SD	0.13	0.21	0.14	0.09	0.11	0.06	0.00

Uji statistik analisis *one way anova* orientasi uji aktivitas antibakteri masker gel *peel-off* ekstrak etanol daun jambu biji

**Tests of Normality<sup>b</sup>**

	Konsentrasi ekstrak	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Diameter daya hambat	5%	.175	3	.	1.000	3	1.000
	10%	.175	3	.	1.000	3	1.000
	15%	.186	3	.	.998	3	.921
	20%	.196	3	.	.996	3	.878
	25%	.191	3	.	.997	3	.900
	Kontrol positif	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

b. Diameter daya hambat is constant when Konsentrasi ekstrak = Kontrol negatif. It has been omitted.

**Oneway**

**Test of Homogeneity of Variances**

Diameter daya hambat

Levene Statistic	df1	df2	Sig.
1.516	6	14	.243



## ANOVA

Diameter daya hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3484.451	6	580.742	40130.230	.000
Within Groups	.203	14	.014		
Total	3484.653	20			

## Multiple Comparisons

Dependent Variable: Diameter daya hambat

Tukey HSD

(I) Konsentrasi ekstrak	(J) Konsentrasi ekstrak	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
5%	10%	-2.10000*	.09822	.000	-2.4354	-1.7646
	15%	-4.86667*	.09822	.000	-5.2021	-4.5313
	20%	-4.95333*	.09822	.000	-5.2887	-4.6179
	25%	-6.02333*	.09822	.000	-6.3587	-5.6879
	Kontrol positif	-33.73000*	.09822	.000	-34.0654	-33.3946
	Kontrol negatif	12.44000*	.09822	.000	12.1046	12.7754
10%	5%	2.10000*	.09822	.000	1.7646	2.4354
	15%	-2.76667*	.09822	.000	-3.1021	-2.4313
	20%	-2.85333*	.09822	.000	-3.1887	-2.5179
	25%	-3.92333*	.09822	.000	-4.2587	-3.5879
	Kontrol positif	-31.63000*	.09822	.000	-31.9654	-31.2946
	Kontrol negatif	14.54000*	.09822	.000	14.2046	14.8754
15%	5%	4.86667*	.09822	.000	4.5313	5.2021
	10%	2.76667*	.09822	.000	2.4313	3.1021
	20%	-.08667	.09822	.970	-.4221	.2487
	25%	-1.15667*	.09822	.000	-1.4921	-.8213
	Kontrol positif	-28.86333*	.09822	.000	-29.1987	-28.5279
	Kontrol negatif	17.30667*	.09822	.000	16.9713	17.6421
20%	5%	4.95333*	.09822	.000	4.6179	5.2887
	10%	2.85333*	.09822	.000	2.5179	3.1887
	15%	.08667	.09822	.970	-.2487	.4221
	25%	-1.07000*	.09822	.000	-1.4054	-.7346
	Kontrol positif	-28.77667*	.09822	.000	-29.1121	-28.4413
	Kontrol negatif	17.39333*	.09822	.000	17.0579	17.7287
25%	5%	6.02333*	.09822	.000	5.6879	6.3587

	10%	3.92333*	.09822	.000	3.5879	4.2587
	15%	1.15667*	.09822	.000	.8213	1.4921
	20%	1.07000*	.09822	.000	.7346	1.4054
	Kontrol positif	-27.70667*	.09822	.000	-28.0421	-27.3713
	Kontrol negatif	18.46333*	.09822	.000	18.1279	18.7987
	5%	33.73000*	.09822	.000	33.3946	34.0654
	10%	31.63000*	.09822	.000	31.2946	31.9654
Kontrol positif	15%	28.86333*	.09822	.000	28.5279	29.1987
	20%	28.77667*	.09822	.000	28.4413	29.1121
	25%	27.70667*	.09822	.000	27.3713	28.0421
	Kontrol negatif	46.17000*	.09822	.000	45.8346	46.5054
	5%	-12.44000*	.09822	.000	-12.7754	-12.1046
	10%	-14.54000*	.09822	.000	-14.8754	-14.2046
Kontrol negatif	15%	-17.30667*	.09822	.000	-17.6421	-16.9713
	20%	-17.39333*	.09822	.000	-17.7287	-17.0579
	25%	-18.46333*	.09822	.000	-18.7987	-18.1279
	Kontrol positif	-46.17000*	.09822	.000	-46.5054	-45.8346

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

## Homogeneous Subsets

### Diameter daya hambat

Tukey HSD<sup>a</sup>

Konsentrasi ekstrak	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
Kontrol negatif	3	.0000					
5%	3		12.4400				
10%	3			14.5400			
15%	3				17.3067		
20%	3				17.3933		
25%	3					18.4633	
Kontrol positif	3						46.1700
Sig.		1.000	1.000	1.000	.970	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.