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LAMPIRAN

Lampiran 1. Determinasi Tanaman



UPT-LABORATORIUM

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Nomor : 312/DET/UPT-LAB/16.11.2021
 Hal : Hasil determinasi tumbuhan
 Lamp. : -

Nama : Umar Aiman
 NIM : 24185538A
 Prodi : S1 Farmasi, Universitas Setia Budi, Surakarta
 Nama Sampel : *Impatiens balsamina* L.

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
 Super Divisi : Spermatophyta
 Divisi : Magnoliophyta
 Kelas : Magnoliopsida/Dicotyledoneae
 Ordo : Geraniales
 Famili : Balsaminaceae
 Genus : *Impatiens*
 Species : *Impatiens balsamina* L.

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

1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 14a – 15a. Golongan 8. 109b – 119b – 120b – 128b – 129b – 135b – 136b – 139b – 140b – 142b – 143b – 146b – 154b – 155b – 156b – 162b – 163b – 167b – 169a – 170b. Familia Balsaminaceae. 1b – 2b. *Impatiens balsamina* L.

Deskripsi:

- Habitus : Tanaman semusim, berbatang basah, tinggi 0,3 – 0,8 m.
- Batang : Batang basah, bulat, berbuku, licin, tegak, bisa bercabang, warna hijau kekuningan.
- Akar : Sistem akar tunggang.
- Daun : Daun tunggal, bangun lanset, panjang 6 – 14 cm, lebar 2 – 2,6 cm, tepi bergerigi, ujung dan pangkal runcing, tanpa daun penumpu, tulang daun menyirip, warna hijau muda.
- Bunga : Bunga tunggal, axillair, berkumpul 1-3, warna cerah (merah, oranye, putih, ungu, dsb), tangkai bunga 1, tidak beruas. 2 daun kelopak samping panjang lk 2 mm, yang ke 3 panjang lk 1,5 cm, bentuk corong miring, di dalam dengan noda kuning, sedikit di atas pangkal memanjang menjadi taji panjangnya 0,2 – 2 cm. Daun mahkota 5, kelihatan seperti 3, merah, 4 daun mahkota samping bentuk jantung terbalik, panjang 2 – 2,5 cm, dua bersatu dengan kuku, yang ke 5 lepas, tidak berkuku, jauh lebih pendek, dengan lunas hijau. Kepala sari bersatu menjadi tudung putih. Kepala putik 5.
- Buah : Buah kendaga, bentuk telur elip, berambut, warna hijau. Bila sudah cukup tua dan masak maka akan membuka dan terpecah menjadi 5 bagian yang terpilin. Bila di sentuh oleh tangan mudah sekali pecah dan terpilin.
- Biji : Biji bulat, hitam, kecil.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 16 November 2021
Penanggung jawab
Determinasi Tumbuhan



Dra. Dewi Sulistyawati. M.Sc.

Lampiran 2. Perhitungan presentase bobot kering terhadap bobot basah daun pacar air

Sampel	Bobot basah (g)	Bobot kering (g)	% rendemen
Daun pacar air	14000	1100	7,85 %

Perhitungan persentase bobot kering terhadap bobot basah :

$$\frac{1100g}{14000g} \times 100\% = 7,85\%$$

Lampiran 3. Perhitungan presentase rendemen serbuk daun pacar air

Sampel	Bobot kering (g)	Bobot serbuk (g)	% rendemen
Daun pacar air	1100	1000	90,9%

Perhitungan persentase rendemen serbuk :

$$\frac{1000g}{1100g} \times 100\% = 90,9\%$$

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

Replikasi	Bobot serbuk (g)	Volume air (ml)	Kadar air (% b/v)
1	10	0,4	4
2	10	0,5	5
3	10	0,7	7
Rata-rata±SD			5,33±1,53

Perhitungan serbuk kadar air (destilasi)

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

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

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

$$\text{Replikasi 3} : \frac{0,7 \text{ mL}}{10 \text{ g}} \times 100\% = 7\%$$

$$\text{Rata – rata} : \frac{4+5+7 \%}{3} = 5,33\%$$

Lampiran 5. Perhitungan presentase rendemen ekstrak daun pacar air

Sampel	Bobot serbuk (g)	Bobot ekstrak (g)	% rendemen
Daun pacar air	650	140	21,5%

Perhitungan persentase rendemen serbuk :

$$\frac{140g}{650g} \times 100\% = 21,5\%$$

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

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

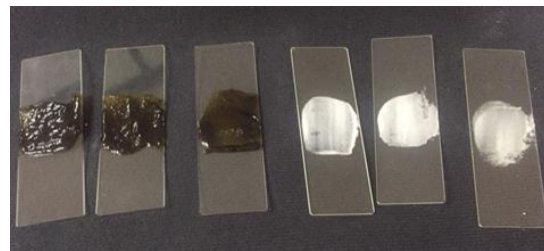
Kadar air ekstrak : $\frac{\text{berat sebelum pengeringan} - \text{berat setelah pengeringan (g)}}{\text{berat sebelum pengeringan (g)}} \times 100\%$

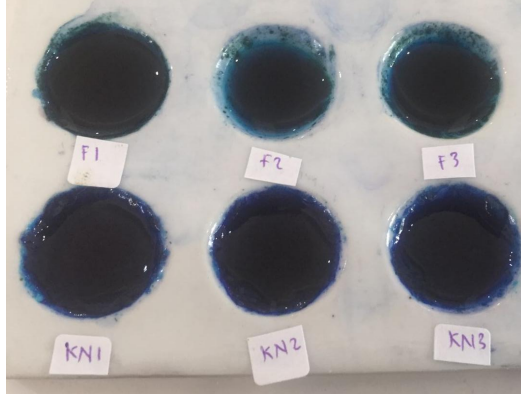
Replikasi 1 : $\frac{2,173 \text{ g} - 1,987 \text{ g}}{2,173 \text{ g}} \times 100\% = 8,55\%$

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

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

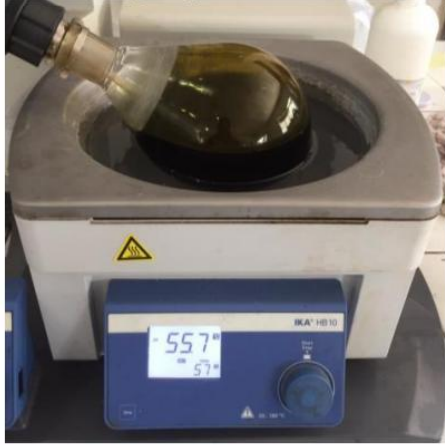
Rata-rata : $\frac{8,55\% + 9,39\% + 8,13\%}{3} = 8,67\%$

Lampiran 7. Alat penelitian***Rotary Evaporator******Sterling – bidwell******Mouister Balance*****Uji homogenitas****Uji Viskositas****Uji pH**

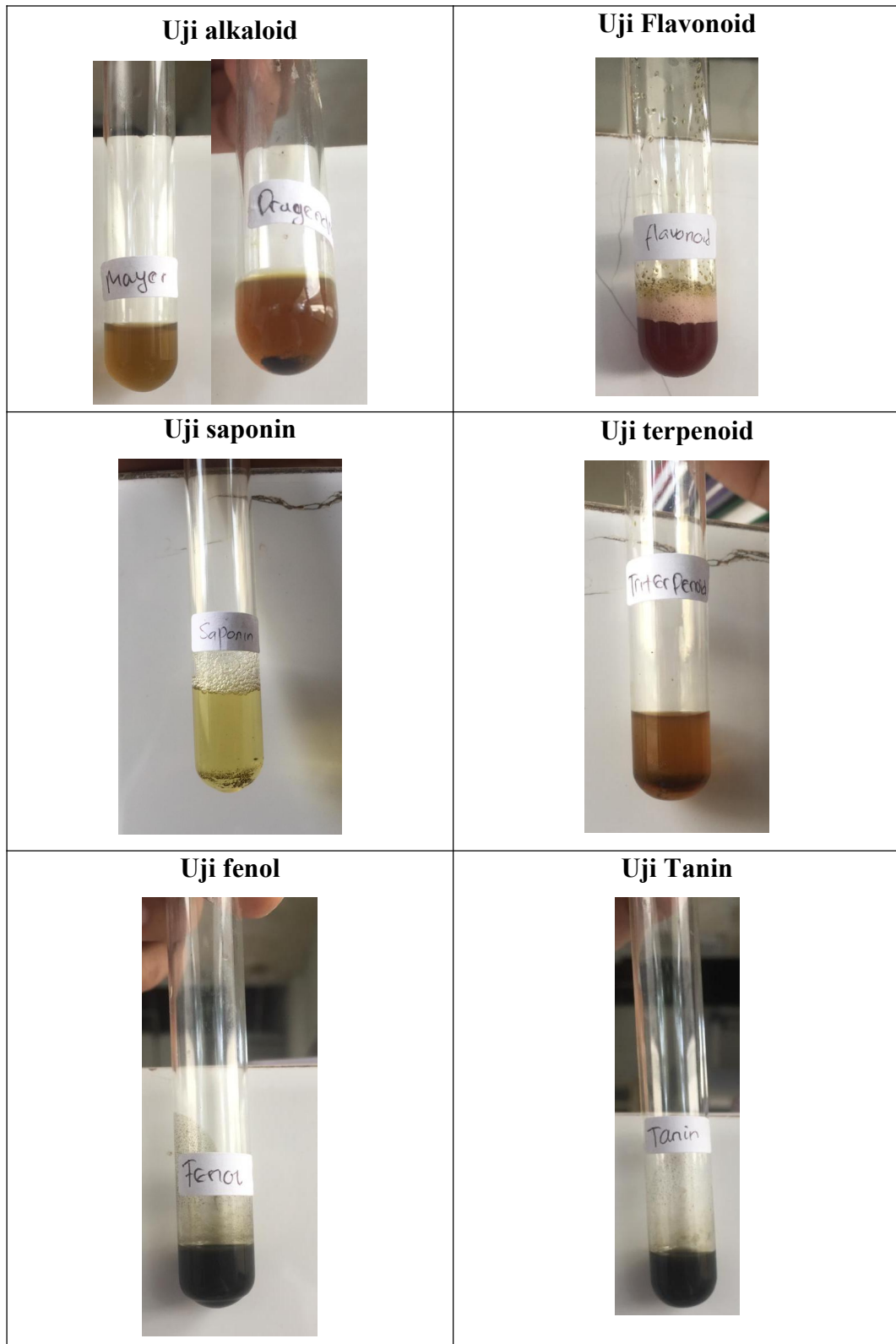
Uji menentukan tipe emulsi**Uji Daya lekat****Uji Daya sebar****Uji Gravimetri****Mikroskop****Laminar air flow**

Lampiran 8. Gambar proses ekstraksi

<p style="text-align: center;">Sampel Segar</p> 	<p style="text-align: center;">Simplisia Kering</p> 
<p style="text-align: center;">Pembuatan serbuk</p> 	<p style="text-align: center;">Serbuk daun pacar air</p> 
<p style="text-align: center;">Proses Penyaringan</p> 	<p style="text-align: center;">Proses ekstraksi</p> 

Proses pengentalan ekstrak**Ekstrak kental**

Lampiran 9. Gambar pengujian kandungan senyawa kimia dan uji bebas etanol ekstrak daun pacar air



Lampiran 10. Sertifikat Bakteri *Staphylococcus epidermidis*

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

SERTIFIKAT HASIL UJI

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

Uraian Hasil Uji

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

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

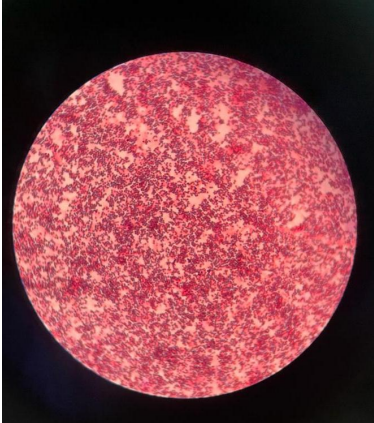
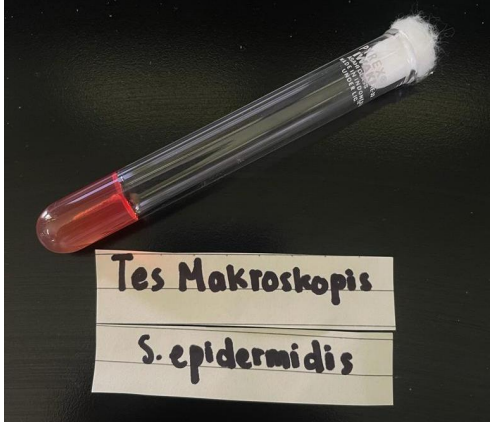
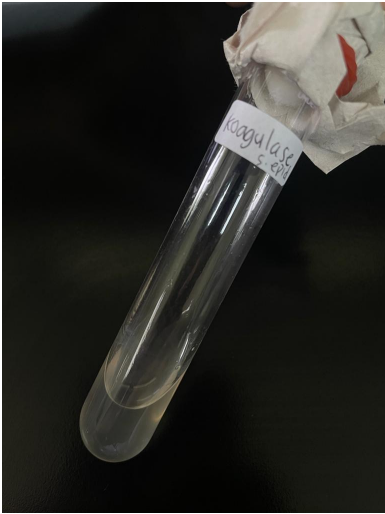
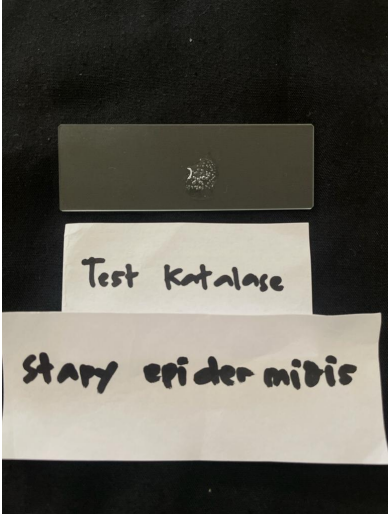
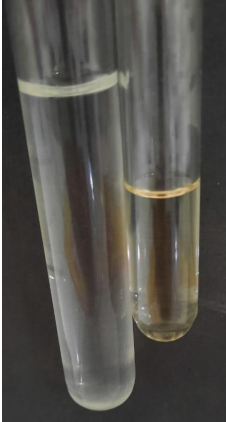
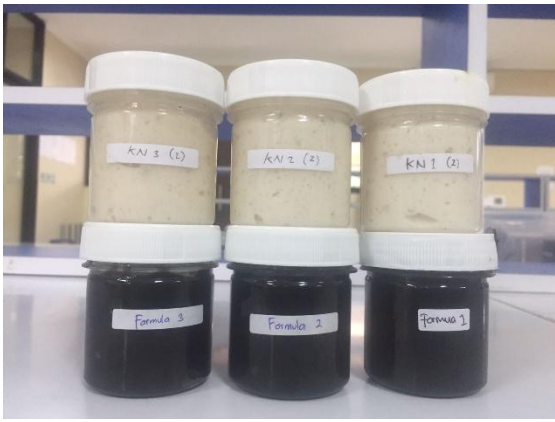
Uji Fermentasi Karbohidrat			Uji Fisiologis	
Glukosa	Asam (-)	Gas (-)	Katalase	(+) timbul gelembung gas
Laktosa	Asam (-)	Gas (-)	Koagulase (serum)	(-) tidak menggumpalkan serum
Maltosa	Asam (-)	Gas (-)	Oxidase	(-)
Sukrosa	Asam (-)	Gas (-)	Manitol	(-)

Catatan:

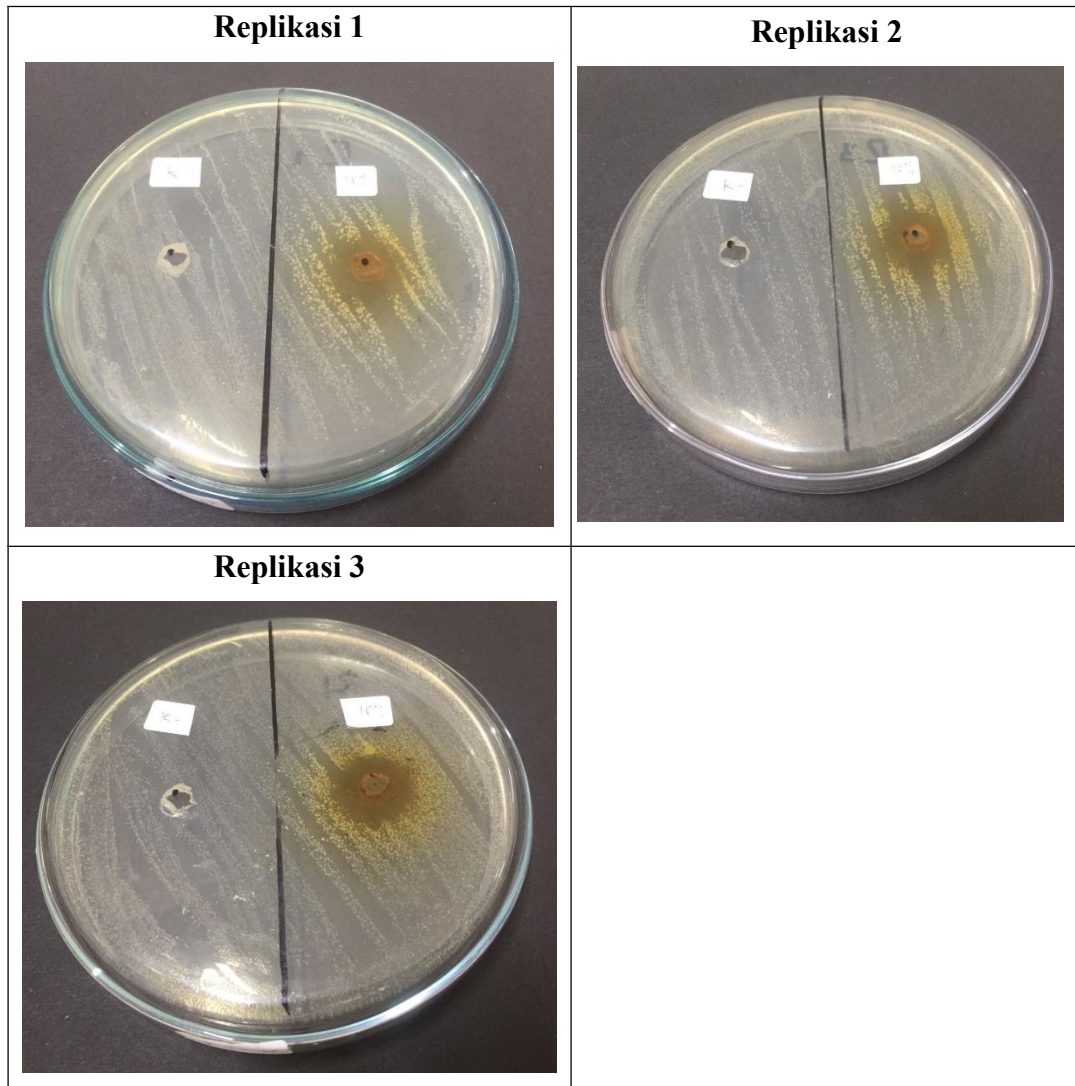
1. Hasil Uji ini hanya berlaku untuk contoh yang diuji.



Lampiran 11. Identifikasi Bakteri *Staphylococcus epidermidis*

<p>Identifikasi Pewarnaan Gram</p> 	<p>Uji pada MSA</p> 
<p>Uji Koagulase</p> 	<p>Uji Katalase</p> 
<p>Suspensi Bakteri</p> 	<p>Sediaan emulgel</p> 

Lampiran 12. Hasil uji aktivitas antibakteri ekstrak daun pacar air metode difusi menggunakan kertas cakram

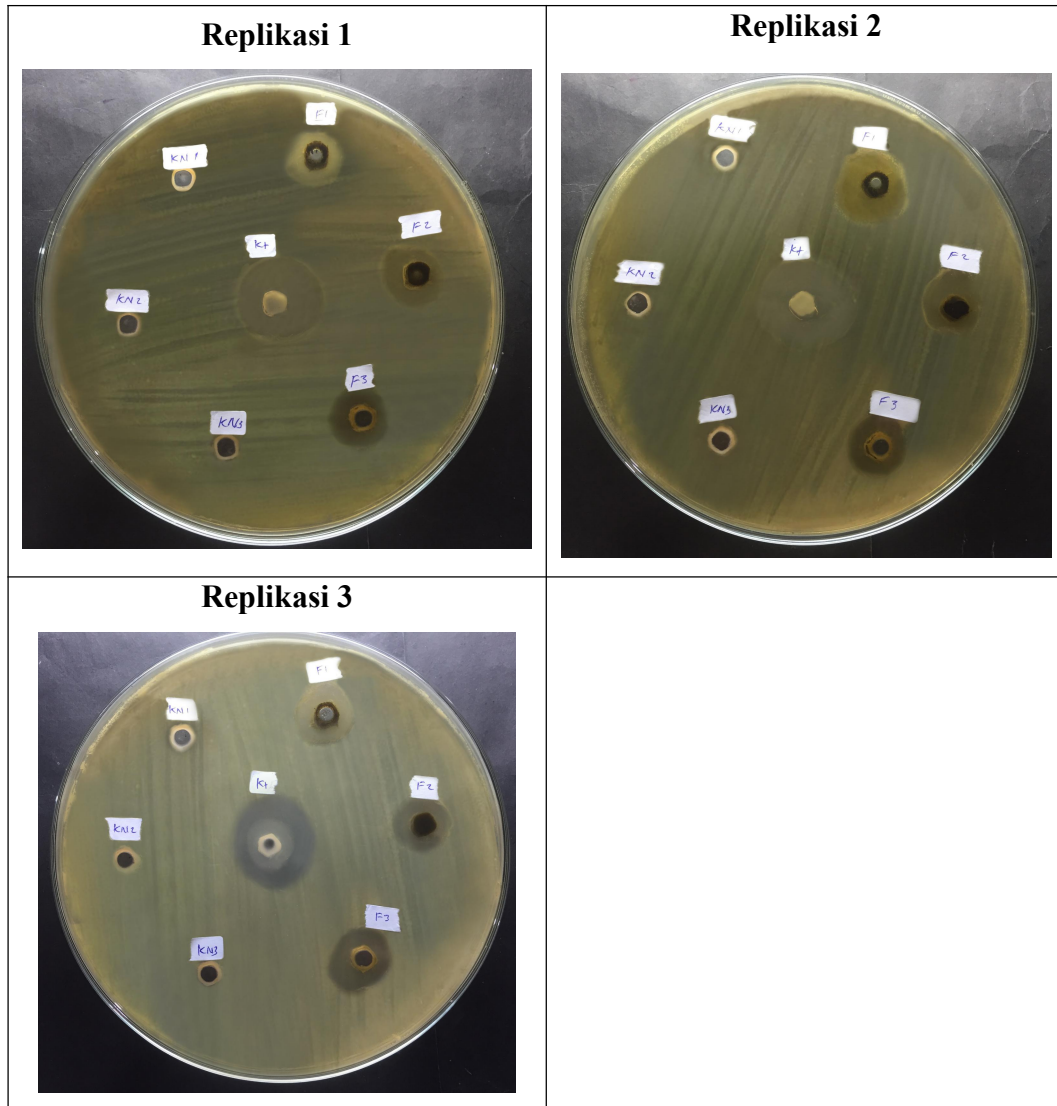


***Keterangan :**

K - : Kontrol negatif (DMSO 5%)

15% : Konsentrasi ekstrak daun pacar air

Lampiran 13. Hasil uji aktivitas antibakteri sediaan ekstrak daun pacar air metode difusi menggunakan kertas cakram



***Keterangan :**

Keterangan :

Kontrol Positif : mediklin 1,0%

F1 : emulgel ekstrak daun pacar air dengan HPMC 3,5 %

F2 : emulgel ekstrak daun pacar air dengan HPMC 4,5 %

F3 : emulgel ekstrak daun pacar air dengan HPMC 5,5 %

Kontrol Negatif 1 : emulgel tanpa ekstrak daun pacar air dengan HPMC 3,5 %

Kontrol Negatif 2 : emulgel tanpa ekstrak daun pacar air dengan HPMC 4,5 %

Kontrol Negatif 3 : emulgel tanpa ekstrak daun pacar air dengan HPMC 5,5 %

Lampiran 14. Hasil analisis data mutu fisik viskositas sediaan emulgel ekstrak daun pacar air

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Uji_Viskositas	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.175	3	.	1.000	3	1.000
	Kontrol Negatif 1	.385	3	.	.750	3	.000
	Kontrol Negatif 2	.232	3	.	.980	3	.726
	Kontrol Negatif 3	.349	3	.	.832	3	.194

a. Lilliefors Significance Correction

Test Statistics^{a,b}

Uji_Viskositas	
Kruskal-Wallis H	14.597
df	5
Asymp. Sig.	.012

a. Kruskal Wallis Test

b. Grouping Variable: Formula

Ranks

	Formula	N	Mean Rank	Sum of Ranks
Uji_Viskositas	Formula 1	3	3.00	9.00
	Kontrol Negatif 1	3	4.00	12.00
	Total	6		

Test Statistics^a

Uji_Viskositas	
Mann-Whitney U	3.000
Wilcoxon W	9.000
Z	-.696
Asymp. Sig. (2-tailed)	.487
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

Ranks

	Formula	N	Mean Rank	Sum of Ranks
Uji_Viskositas	Formula 2	3	3.17	9.50
	Kontrol Negatif 2	3	3.83	11.50
	Total	6		

Test Statistics^a

Uji_Viskositas	
Mann-Whitney U	3.500
Wilcoxon W	9.500
Z	-.443
Asymp. Sig. (2-tailed)	.658
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

Ranks

	Formula	N	Mean Rank	Sum of Ranks
Uji_Viskositas	Formula 3	3	3.00	9.00
	Kontrol Negatif 3	3	4.00	12.00
	Total	6		

Test Statistics^a

Uji_Viskositas	
Mann-Whitney U	3.000
Wilcoxon W	9.000
Z	-.655
Asymp. Sig. (2-tailed)	.513
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

Lampiran 15. Hasil analisis data mutu fisik pH sediaan emulgel ekstrak daun pacar air

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji_pH	Formula 1	.200	3	.	.995	3	.862
	Formula 2	.191	3	.	.997	3	.900
	Formula 3	.299	3	.	.915	3	.433
	Kontrol Negatif 1	.211	3	.	.991	3	.817
	Kontrol Negatif 2	.326	3	.	.873	3	.305
	Kontrol Negatif 3	.238	3	.	.976	3	.702

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Uji_pH	Based on Mean	2.786	5	12	.068
	Based on Median	.536	5	12	.746
	Based on Median and with adjusted df	.536	5	3.869	.746
	Based on trimmed mean	2.526	5	12	.087

ANOVA

Uji_pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.881	5	1.176	65.628	.000
Within Groups	.215	12	.018		
Total	6.096	17			

Multiple Comparisons

Dependent Variable: Uji_pH

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-.10333	.10931	.927	-.4705	.2638
	Formula 3	-.13667	.10931	.805	-.5038	.2305
	Kontrol Negatif 1	-1.22000*	.10931	.000	-1.5872	-.8528
	Kontrol Negatif 2	-1.07333*	.10931	.000	-1.4405	-.7062

	Kontrol Negatif 3	-1.33667*	.10931	.000	-1.7038	-.9695
Formula 2	Formula 1	.10333	.10931	.927	-.2638	.4705
	Formula 3	-.03333	.10931	1.000	-.4005	.3338
	Kontrol Negatif 1	-1.11667*	.10931	.000	-1.4838	-.7495
	Kontrol Negatif 2	-.97000*	.10931	.000	-1.3372	-.6028
	Kontrol Negatif 3	-1.23333*	.10931	.000	-1.6005	-.8662
Formula 3	Formula 1	.13667	.10931	.805	-.2305	.5038
	Formula 2	.03333	.10931	1.000	-.3338	.4005
	Kontrol Negatif 1	-1.08333*	.10931	.000	-1.4505	-.7162
	Kontrol Negatif 2	-.93667*	.10931	.000	-1.3038	-.5695
	Kontrol Negatif 3	-1.20000*	.10931	.000	-1.5672	-.8328
Kontrol Negatif 1	Formula 1	1.22000*	.10931	.000	.8528	1.5872
	Formula 2	1.11667*	.10931	.000	.7495	1.4838
	Formula 3	1.08333*	.10931	.000	.7162	1.4505
	Kontrol Negatif 2	.14667	.10931	.758	-.2205	.5138
	Kontrol Negatif 3	-.11667	.10931	.885	-.4838	.2505
Kontrol Negatif 2	Formula 1	1.07333*	.10931	.000	.7062	1.4405
	Formula 2	.97000*	.10931	.000	.6028	1.3372
	Formula 3	.93667*	.10931	.000	.5695	1.3038
	Kontrol Negatif 1	-.14667	.10931	.758	-.5138	.2205
	Kontrol Negatif 3	-.26333	.10931	.227	-.6305	.1038
Kontrol Negatif 3	Formula 1	1.33667*	.10931	.000	.9695	1.7038
	Formula 2	1.23333*	.10931	.000	.8662	1.6005
	Formula 3	1.20000*	.10931	.000	.8328	1.5672
	Kontrol Negatif 1	.11667	.10931	.885	-.2505	.4838
	Kontrol Negatif 2	.26333	.10931	.227	-.1038	.6305

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

Uji_pH

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
Formula 1	3	5.2133	
Formula 2	3	5.3167	
Formula 3	3	5.3500	
Kontrol Negatif 2	3		6.2867
Kontrol Negatif 1	3		6.4333

Kontrol Negatif 3	3		6.5500
Sig.		.805	.227

Means for groups in homogeneous subsets are displayed.

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

Lampiran 16. Hasil analisis data mutu fisik daya sebar sediaan emulgel ekstrak daun pacar air

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Uji_Daya_Sebar	Statistic	df	Sig.	Statistic	df	Sig.
Gram_50	Formula 1	.292	3	.	.923	3	.463
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.175	3	.	1.000	3	1.000
	Kontrol Negatif 1	.385	3	.	.750	3	.000
	Kontrol Negatif 2	.175	3	.	1.000	3	1.000
	Kontrol Negatif 3	.385	3	.	.750	3	.000
Gram_100	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000
	Kontrol Negatif 1	.385	3	.	.750	3	.000
	Kontrol Negatif 2	.385	3	.	.750	3	.000
	Kontrol Negatif 3	.385	3	.	.750	3	.000
Gram_150	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000
	Kontrol Negatif 1	.385	3	.	.750	3	.000
	Kontrol Negatif 2	.253	3	.	.964	3	.637
	Kontrol Negatif 3	.385	3	.	.750	3	.000
Gram_200	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.292	3	.	.923	3	.463
	Kontrol Negatif 1	.385	3	.	.750	3	.000
	Kontrol Negatif 2	.385	3	.	.750	3	.000
	Kontrol Negatif 3	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Ranks

	Uji_Daya_Sebar	N	Mean Rank
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Gram_50	Formula 1	3	9.83
	Formula 2	3	13.17
	Formula 3	3	4.33
	Kontrol Negatif 1	3	17.00
	Kontrol Negatif 2	3	7.17
	Kontrol Negatif 3	3	5.50
	Total	18	
Gram_100	Formula 1	3	13.33
	Formula 2	3	11.33
	Formula 3	3	3.00
	Kontrol Negatif 1	3	15.67
	Kontrol Negatif 2	3	8.33
	Kontrol Negatif 3	3	5.33
	Total	18	
Gram_150	Formula 1	3	15.17
	Formula 2	3	10.83
	Formula 3	3	4.00
	Kontrol Negatif 1	3	15.67
	Kontrol Negatif 2	3	6.83
	Kontrol Negatif 3	3	4.50
	Total	18	
Gram_200	Formula 1	3	13.17
	Formula 2	3	11.83
	Formula 3	3	3.33
	Kontrol Negatif 1	3	17.00
	Kontrol Negatif 2	3	6.67
	Kontrol Negatif 3	3	5.00
	Total	18	

Test Statistics^{a,b}

	Gram_50	Gram_100	Gram_150	Gram_200
Kruskal-Wallis H	12.690	12.608	14.524	15.076
df	5	5	5	5
Asymp. Sig.	.026	.027	.013	.010

a. Kruskal Wallis Test

b. Grouping Variable: Uji_Daya_Sebar

Ranks				
	Uji_Daya_Sebar	N	Mean Rank	Sum of Ranks
Gram_50	Formula 1	3	2.00	6.00
	Kontrol Negatif 1	3	5.00	15.00
	Total	6		
Gram_100	Formula 1	3	3.33	10.00
	Kontrol Negatif 1	3	3.67	11.00
	Total	6		
Gram_150	Formula 1	3	3.33	10.00
	Kontrol Negatif 1	3	3.67	11.00
	Total	6		
Gram_200	Formula 1	3	2.00	6.00
	Kontrol Negatif 1	3	5.00	15.00
	Total	6		

Test Statistics^a				
	Gram_50	Gram_100	Gram_150	Gram_200
Mann-Whitney U	.000	4.000	4.000	.000
Wilcoxon W	6.000	10.000	10.000	6.000
Z	-1.993	-.232	-.258	-1.993
Asymp. Sig. (2-tailed)	.046	.817	.796	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	1.000 ^b	1.000 ^b	.100 ^b

a. Grouping Variable: Uji_Daya_Sebar

b. Not corrected for ties.

Ranks				
	Uji_Daya_Sebar	N	Mean Rank	Sum of Ranks
Gram_50	Formula 2	3	5.00	15.00
	Kontrol Negatif 2	3	2.00	6.00
	Total	6		
Gram_100	Formula 2	3	4.33	13.00
	Kontrol Negatif 2	3	2.67	8.00
	Total	6		
Gram_150	Formula 2	3	4.67	14.00

	Kontrol Negatif 2	3	2.33	7.00
	Total	6		
Gram_200	Formula 2	3	5.00	15.00
	Kontrol Negatif 2	3	2.00	6.00
	Total	6		

Test Statistics^a

	Gram_50	Gram_100	Gram_150	Gram_200
Mann-Whitney U	.000	2.000	1.000	.000
Wilcoxon W	6.000	8.000	7.000	6.000
Z	-1.993	-1.291	-1.623	-2.023
Asymp. Sig. (2-tailed)	.046	.197	.105	.043
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.400 ^b	.200 ^b	.100 ^b

a. Grouping Variable: Uji_Daya_Sebar

b. Not corrected for ties.

Ranks

	Uji_Daya_Sebar	N	Mean Rank	Sum of Ranks
Gram_50	Formula 3	3	3.17	9.50
	Kontrol Negatif 3	3	3.83	11.50
	Total	6		
Gram_100	Formula 3	3	2.67	8.00
	Kontrol Negatif 3	3	4.33	13.00
	Total	6		
Gram_150	Formula 3	3	3.33	10.00
	Kontrol Negatif 3	3	3.67	11.00
	Total	6		
Gram_200	Formula 3	3	2.83	8.50
	Kontrol Negatif 3	3	4.17	12.50
	Total	6		

Test Statistics^a

	Gram_50	Gram_100	Gram_150	Gram_200
Mann-Whitney U	3.500	2.000	4.000	2.500
Wilcoxon W	9.500	8.000	10.000	8.500

Z	-.471	-1.124	-.258	-.943
Asymp. Sig. (2-tailed)	.637	.261	.796	.346
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b	.400 ^b	1.000 ^b	.400 ^b

a. Grouping Variable: Uji_Daya_Sebar

b. Not corrected for ties.

Lampiran 17. Hasil analisis data mutu fisik daya lekat sediaan emulgel ekstrak daun pacar air

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Daya_Lekat	Formula 1	.300	3	.	.913	3	.430
	Formula 2	.196	3	.	.996	3	.878
	Formula 3	.208	3	.	.992	3	.826
	Kontrol Negatif 1	.184	3	.	.999	3	.927
	Kontrol Negatif 2	.232	3	.	.980	3	.726
	Kontrol Negatif 3	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

		Test of Homogeneity of Variances			
		Levene			
		Statistic	df1	df2	Sig.
Daya_Lekat	Based on Mean	2.734	5	12	.071
	Based on Median	.860	5	12	.535
	Based on Median and with adjusted df	.860	5	4.076	.573
	Based on trimmed mean	2.565	5	12	.084

ANOVA

Daya_Lekat					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.158	5	1.232	170.017	.000
Within Groups	.087	12	.007		
Total	6.245	17			

Multiple Comparisons

Dependent Variable: Daya_Lekat

Tukey HSD

(I) Formula	(J) Formula	Mean	Std.	Sig.	95% Confidence Interval
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		Difference (I-J)	Error		Lower Bound	Upper Bound
Formula 1	Formula 2	-.90000*	.06950	.000	-1.1334	-.6666
	Formula 3	-1.38333*	.06950	.000	-1.6168	-1.1499
	Kontrol Negatif 1	-.07667	.06950	.871	-.3101	.1568
	Kontrol Negatif 2	-1.09000*	.06950	.000	-1.3234	-.8566
	Kontrol Negatif 3	-1.47667*	.06950	.000	-1.7101	-1.2432
Formula 2	Formula 1	.90000*	.06950	.000	.6666	1.1334
	Formula 3	-.48333*	.06950	.000	-.7168	-.2499
	Kontrol Negatif 1	.82333*	.06950	.000	.5899	1.0568
	Kontrol Negatif 2	-.19000	.06950	.139	-.4234	.0434
	Kontrol Negatif 3	-.57667*	.06950	.000	-.8101	-.3432
Formula 3	Formula 1	1.38333*	.06950	.000	1.1499	1.6168
	Formula 2	.48333*	.06950	.000	.2499	.7168
	Kontrol Negatif 1	1.30667*	.06950	.000	1.0732	1.5401
	Kontrol Negatif 2	.29333*	.06950	.012	.0599	.5268
	Kontrol Negatif 3	-.09333	.06950	.757	-.3268	.1401
Kontrol Negatif 1	Formula 1	.07667	.06950	.871	-.1568	.3101
	Formula 2	-.82333*	.06950	.000	-1.0568	-.5899
	Formula 3	-1.30667*	.06950	.000	-1.5401	-1.0732
	Kontrol Negatif 2	-1.01333*	.06950	.000	-1.2468	-.7799
	Kontrol Negatif 3	-1.40000*	.06950	.000	-1.6334	-1.1666
Kontrol Negatif 2	Formula 1	1.09000*	.06950	.000	.8566	1.3234
	Formula 2	.19000	.06950	.139	-.0434	.4234
	Formula 3	-.29333*	.06950	.012	-.5268	-.0599
	Kontrol Negatif 1	1.01333*	.06950	.000	.7799	1.2468
	Kontrol Negatif 3	-.38667*	.06950	.001	-.6201	-.1532
Kontrol Negatif 3	Formula 1	1.47667*	.06950	.000	1.2432	1.7101
	Formula 2	.57667*	.06950	.000	.3432	.8101
	Formula 3	.09333	.06950	.757	-.1401	.3268
	Kontrol Negatif 1	1.40000*	.06950	.000	1.1666	1.6334
	Kontrol Negatif 2	.38667*	.06950	.001	.1532	.6201

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

Daya_Lekat

Tukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
Formula 1	3	1.3967		
Kontrol Negatif 1	3	1.4733		
Formula 2	3		2.2967	
Kontrol Negatif 2	3		2.4867	
Formula 3	3			2.7800
Kontrol Negatif 3	3			2.8733
Sig.		.871	.139	.757

Means for groups in homogeneous subsets are displayed.

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

Lampiran 18. Hasil analisis data mutu fisik viskositas *cycling test* sediaan emulgel ekstrak daun pacar air

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
UjiViskositas_Sebelum	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.175	3	.	1.000	3	1.000
	Kontrol Negatif 1	.385	3	.	.750	3	.000
	Kontrol Negatif 2	.232	3	.	.980	3	.726
	Kontrol Negatif 3	.349	3	.	.832	3	.194
UjiViskositas_Sesudah	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000
	Kontrol Negatif 1	.292	3	.	.923	3	.463
	Kontrol Negatif 2	.292	3	.	.923	3	.463
	Kontrol Negatif 3	.343	3	.	.842	3	.220

a. Lilliefors Significance Correction

Test Statistics^{a,b}

	UjiViskositas_Se belum	UjiViskositas_Se sudah
Kruskal-Wallis H	14.597	13.777
df	5	5
Asymp. Sig.	.012	.017

a. Kruskal Wallis Test

b. Grouping Variable: Formula

Ranks

		N	Mean Rank	Sum of Ranks
UjiViskositas_Sesudah -	Negative Ranks	17 ^a	9.00	153.00
UjiViskositas_Sebelum	Positive Ranks	0 ^b	.00	.00
	Ties	1 ^c		
	Total	18		

a. UjiViskositas_Sesudah < UjiViskositas_Sebelum

- b. UjiViskositas_Sesudah > UjiViskositas_Sebelum
- c. UjiViskositas_Sesudah = UjiViskositas_Sebelum

Test Statistics^a

	UjiViskositas_Sesudah - UjiViskositas_Sebelum
Z	-3.649 ^b
Asymp. Sig. (2-tailed)	.000

- a. Wilcoxon Signed Ranks Test
- b. Based on positive ranks.

Lampiran 19. Hasil analisis data mutu fisik pH *cyling test* sediaan emulgel ekstrak daun pacar air

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
UjipH_Sebelum	Formula 1	.200	3	.	.995	3	.862
	Formula 2	.191	3	.	.997	3	.900
	Formula 3	.299	3	.	.915	3	.433
	Kontrol Negatif 1	.211	3	.	.991	3	.817
	Kontrol Negatif 2	.326	3	.	.873	3	.305
	Kontrol Negatif 3	.238	3	.	.976	3	.702
UjipH_Sesudah	Formula 1	.328	3	.	.871	3	.298
	Formula 2	.227	3	.	.983	3	.747
	Formula 3	.269	3	.	.949	3	.567
	Kontrol Negatif 1	.272	3	.	.947	3	.554
	Kontrol Negatif 2	.278	3	.	.940	3	.526
	Kontrol Negatif 3	.310	3	.	.898	3	.380

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
UjipH_Sebelum	Based on Mean	2.786	5	12	.068
	Based on Median	.536	5	12	.746
	Based on Median and with adjusted df	.536	5	3.869	.746
	Based on trimmed mean	2.526	5	12	.087
UjipH_Sesudah	Based on Mean	3.311	5	12	.041
	Based on Median	.868	5	12	.530
	Based on Median and with adjusted df	.868	5	4.352	.566
	Based on trimmed mean	3.048	5	12	.053

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
UjipH_Sebelum	Between Groups	5.881	5	1.176	65.628	.000
	Within Groups	.215	12	.018		
	Total	6.096	17			
UjipH_Sesudah	Between Groups	5.372	5	1.074	49.945	.000
	Within Groups	.258	12	.022		
	Total	5.630	17			

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	UjipH_Sebelum	5.8583	18	.59882	.14114
	UjipH_Sesudah	5.7228	18	.57548	.13564

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	UjipH_Sebelum & UjipH_Sesudah	18	.996	.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	UjipH_Sebelum - UjipH_Sesudah	.13556	.05649	.01331	.10746	.16365	10.181	17	.000

Lampiran 20. Hasil analisis zona hambat dengan metode difusi sumuran sediaan emulgel ekstrak daun pacar air

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya_Hambat	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.193	3	.	.997	3	.890
	Formula 3	.314	3	.	.893	3	.363
	Kontrol Positif	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya_Hambat	Based on Mean	1.645	3	8	.255
	Based on Median	.712	3	8	.572
	Based on Median and with adjusted df	.712	3	4.752	.587
	Based on trimmed mean	1.573	3	8	.270

ANOVA

Daya_Hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	262.854	3	87.618	582.502	.000
Within Groups	1.203	8	.150		
Total	264.057	11			

Multiple Comparisons

Dependent Variable: Daya_Hambat

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	.48333	.31667	.467	-.5307	1.4974

	Formula 3	.65000	.31667	.247	-.3641	1.6641
	Kontrol Positif	-10.41667*	.31667	.000	-11.4307	-9.4026
Formula 2	Formula 1	-.48333	.31667	.467	-1.4974	.5307
	Formula 3	.16667	.31667	.950	-.8474	1.1807
	Kontrol Positif	-10.90000*	.31667	.000	-11.9141	-9.8859
Formula 3	Formula 1	-.65000	.31667	.247	-1.6641	.3641
	Formula 2	-.16667	.31667	.950	-1.1807	.8474
	Kontrol Positif	-11.06667*	.31667	.000	-12.0807	-10.0526
Kontrol Positif	Formula 1	10.41667*	.31667	.000	9.4026	11.4307
	Formula 2	10.90000*	.31667	.000	9.8859	11.9141
	Formula 3	11.06667*	.31667	.000	10.0526	12.0807

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

Daya_Hambat

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
Formula 3	3	15.3500	
Formula 2	3	15.5167	
Formula 1	3	16.0000	
Kontrol Positif	3		26.4167
Sig.		.247	1.000

Means for groups in homogeneous subsets are displayed.

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