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Lampiran 1. Hasil determinasi daun pepaya

UNIVERSITAS SETIA BUDI

UPT-LABORATORIUM

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Nomor : 132/DET/UPT-LAB/18.01.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Octaria Santy
NIM : 23175285A
Alamat : Fakultas Farmasi, Universitas Setia Budi, Surakarta
Nama Sampel : *Carica papaya* L.

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida/Dicotyledoneae
Ordo : Brassicales
Famili : Caricaceae
Genus : Carica
Species : *Carica papaya* 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 – 120a – 121b – 124b – 125a – 126a. Familia 85. Caricaceae. 1. *Carica papaya* L.

Deskripsi:

Habitus : Semak berbentuk pohon, tinggi lk 2-3 meter.

Batang : Batang bulat silindris, lurus, percabangan monopodial, di atas bercabang, sebelah dalam berupa spons dan berongga, di luar terdapat tanda bekas daun yang banyak.

Akar : Akar tunggang.

Daun : Daun tunggal, berjejal pada ujung batang dan ujung cabang, tangkai daun bulat silindris, berongga, panjang 110-115 cm; helaian daun bulat telur, bertulang daun menjari, bercangap menjari berbagi menjari, ujung runcing, pangkal berbentuk jantung, garis tengah lk 98 cm, taju selalu berlekuk menyirip tidak beraturan.

Bunga : Bunga berkelamin dua pada karangan bunga yang jantan, pada tandan yang serupa malai, kelopak sangat kecil, mahkota bentuk terompet, putih kekuningan dengan tepi yang bertaju 5 dan tabung yang panjang, langsing, taju terputar dalam kuncup, kepalasari bertangkai pendek dan duduk.

Buah : Buah buni bulat telur memanjang, hijau kekuningan, berdaging dan berisi cairan.

Biji : Biiji hitam, bulat telur, banyak, dibungkus oleh selaput yang berisi cairan, di dalamnya berduri tempel, berjerawat.

Surakarta, 18 Januari 2021

Kepala UPT-LAB
Universitas Setia Budi

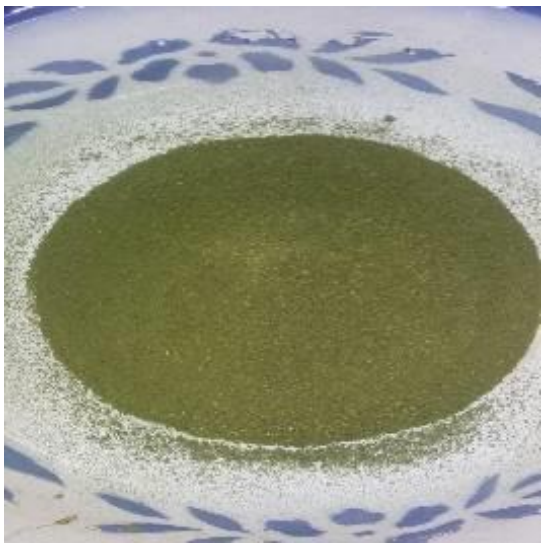
Asik Gunawan, Amdk

Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati. M.Sc.

Lampiran 2. Bahan penelitian

Tanaman pohon pepaya



Serbuk daun pepaya

Ekstrak kental daun pepaya

Lampiran 3. Alat penelitian

Ayakan mesh 40

Alat penyerbuk (blender)

Rotary evaporator

Oven

LAF (*Laminar Air Flow*)

Autoklaf

Timbangan neraca analitik

Water bath

Moisture balance

Lampiran 4. Hasil perhitungan rendemen serbuk daun pepaya

Persentase rendemen serbuk = $\frac{bobot\ kering\ (gram)}{bobot\ basah\ (gram)}$ x 100%

Persentase rendemen serbuk = $\frac{1190}{10000}$ x 100%

Persentase rendemen serbuk = 11,9%

Lampiran 5. Hasil perhitungan rendemen ekstrak daun pepaya

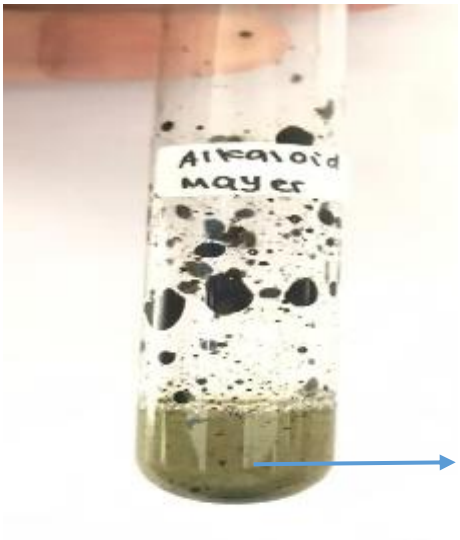
Persentase rendemen ekstrak = $\frac{bobot\ ekstrak\ (gram)}{bobot\ serbuk\ (gram)}$ x 100%

Persentase rendemen ekstrak = $\frac{115,248}{1000}$ x 100%

Persentase rendemen ekstrak = 11,52%

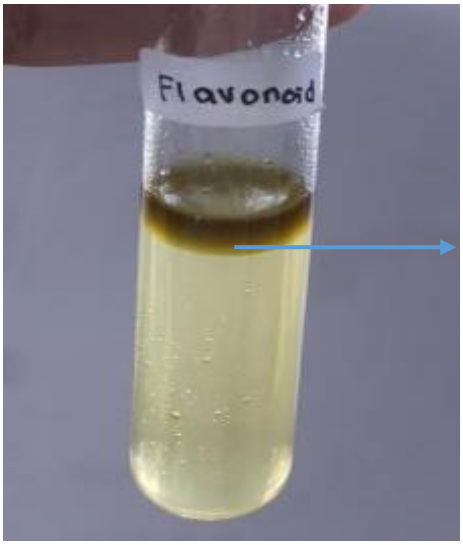
Lampiran 6. Hasil identifikasi kandungan senyawa kimia ekstrak daun pepaya

Senyawa	Hasil	Keterangan
Alkaloid		Endapan jingga muda



Endapan putih

Flavonoid



Terdapat warna jingga pada lapisan amil alkohol

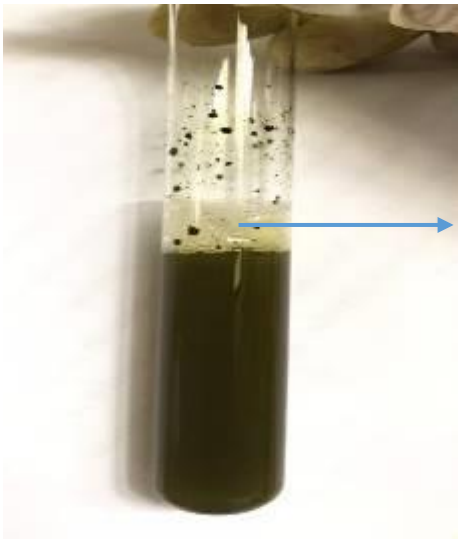
Tanin

Terbentuk warna hijau kehitaman

Steroid

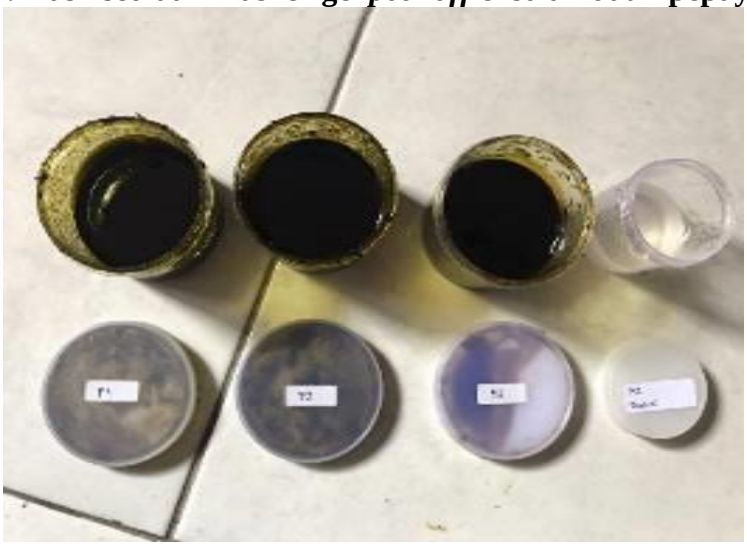
Terbentuk warna biru kehijauan

Saponin



Terbentuk busa

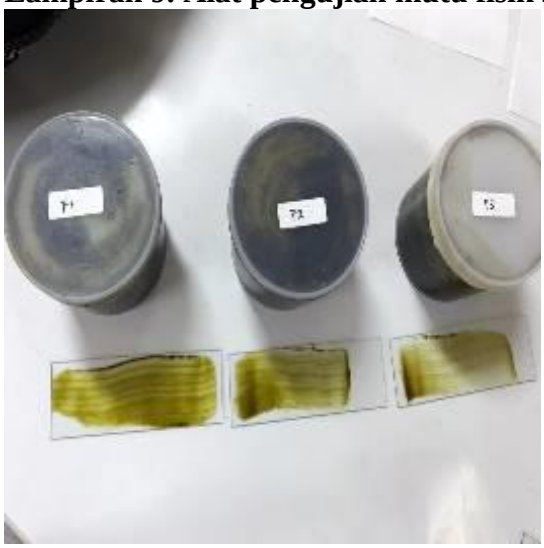
Lampiran 7. Hasil sediaan masker gel *peel-off* ekstrak daun pepaya



Keterangan:
F 1 : Masker gel *peel-off* dengan konsentrasi PVA 12% dan HPMC 1%
F 2 : Masker gel *peel-off* dengan konsentrasi PVA 10% dan HPMC 2%
F 3 : Masker gel *peel-off* dengan konsentrasi PVA 8% dan HPMC 3%
K – (Basis) : Masker gel *peel-off* tanpa zat aktif ekstrak daun pepaya

Lampiran 8. Hasil uji stabilitas sediaan masker gel *peel-off* ekstrak daun pepaya

Lampiran 9. Alat pengujian mutu fisik sediaan



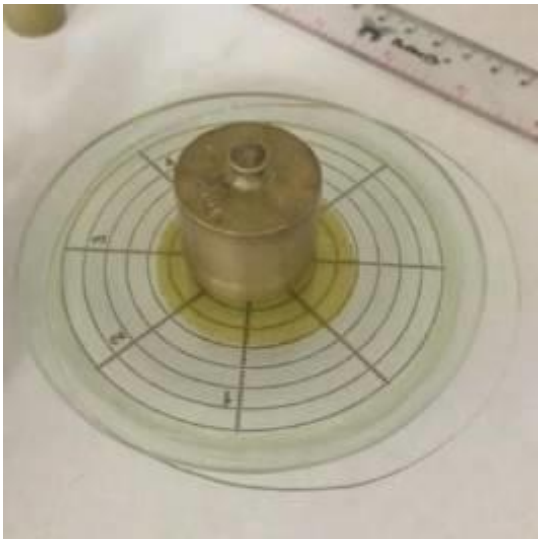
Uji homogenitas

Uji pH

Uji viskositas

Uji daya lekat

Uji waktu mengering



Uji daya sebar

Lampiran 10. Data hasil uji mutu fisik pH sediaan masker gel *peel-off* ekstrak daun pepaya

Uji normalitas sediaan

Tests of Normality

	pH	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Hari ke-1	.346	4	.	.799	4	.101
	hari ke-21	.179	4	.	.991	4	.964

a. Lilliefors Significance Correction

Group Statistics

	pH	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Hari ke-1	4	6.3175	.44342	.22171
	hari ke-21	4	5.9900	.44863	.22431

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
Nilai	Equal variances assumed	.000	.994	1.038	6	.339	.32750	.31539	-.44424	1.09924
	Equal variances not assumed			1.038	5.999	.339	.32750	.31539	-.44426	1.09926

Pengaruh PVA dan HPMC antar formula

Tests of Normality

	Formula	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Formula I	.193	6	.200*	.871	6	.230
	Formula II	.218	6	.200*	.922	6	.524
	Formula III	.310	6	.073	.787	6	.045
	K-	.201	6	.200*	.857	6	.179

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Kruskal Wallis Test

Ranks

	Formula	N	Mean Rank
Nilai	Formula I	6	14.33
	Formula II	6	6.92
	Formula III	6	7.25
	K-	6	21.50
	Total	24	

Test Statistics[a,b]

	Nilai
Chi-Square	17.202
df	3
Asymp. Sig.	.001

a. Kruskal Wallis Test
b. Grouping Variable: Formula

Uji stabilitas pH sediaan masker gel *peel-off* ekstrak daun pepaya

Tests of Normality

	pH	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Sebelum	.346	4	.	.799	4	.101
	Sesudah	.179	4	.	.991	4	.964

a. Lilliefors Significance Correction

Group Statistics

	pH	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Sebelum	4	6.3175	.44342	.22171
	Sesudah	4	5.9900	.44863	.22431

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
Nilai	Equal variances assumed	.000	.994	1.038	6	.339	.32750	.31539	-.44424	1.09924
	Equal variances not assumed			1.038	5.999	.339	.32750	.31539	-.44426	1.09926

Lampiran 11. Data hasil uji mutu fisik daya sebar sediaan masker gel *peel-off* ekstrak daun pepaya

Uji normalitas sediaan

Tests of Normality

	Dayasebar	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
nilai	Hari ke-1	.133	20	.200*	.954	20	.433
	Hari ke-21	.098	20	.200*	.962	20	.587

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Group Statistics

	Dayasebar	N	Mean	Std. Deviation	Std. Error Mean
nilai	Hari ke-1	20	5.8200	.98226	.21964
	Hari ke-21	20	5.6470	.95041	.21252

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
nilai	Equal variances assumed	.056	.813	.566	38	.575	.17300	.30562	-.44570	.79170
	Equal variances not assumed			.566	37.959	.575	.17300	.30562	-.44573	.79173

Pengaruh PVA dan HPMC antar formula

Tests of Normality

	Formula	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Formula I	.161	30	.045	.913	30	.018
	Formula II	.143	30	.122	.934	30	.061
	Formula III	.110	30	.200*	.931	30	.054
	K-	.138	30	.151	.891	30	.005

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Kruskal Wallis Test

Ranks

	Formula	N	Mean Rank
Nilai	Formula I	30	17.65
	Formula II	30	62.65
	Formula III	30	77.62
	K-	30	84.08
	Total	120	

Test Statistics[a,b]

	Nilai
Chi-Square	66.816
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test
b. Grouping Variable: Formula

Uji stabilitas daya sebar sediaan masker gel *peel-off* ekstrak daun pepaya

Tests of Normality

	Dayasebar	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
nilai	Sebelum	.133	20	.200*	.954	20	.433
	sesudah	.120	20	.200*	.949	20	.359

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Group Statistics

	Dayasebar	N	Mean	Std. Deviation	Std. Error Mean
nilai	Sebelum	20	5.8200	.98226	.21964
	sesudah	20	5.5100	.96158	.21502

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
nilai	Equal variances assumed	.107	.746	1.009	38	.320	.31000	.30737	-.31223	.93223
	Equal variances not assumed			1.009	37.983	.320	.31000	.30737	-.31224	.93224

Lampiran 12. Data hasil uji mutu fisik daya lekat sediaan masker gel *peel-off* ekstrak daun pepaya

Uji normalitas sediaan

Tests of Normality

	Dayalekat	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Hari ke-1	.163	4	.	.993	4	.970
	Hari ke-21	.180	4	.	.985	4	.933

a. Lilliefors Significance Correction

Group Statistics

	Dayalekat	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Hari ke-1	4	4.8325	2.25496	1.12748
	Hari ke-21	4	5.2500	2.39204	1.19602

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
Nilai	Equal variances assumed	.009	.927	-.254	6	.808	-.41750	1.64368	-4.43943	3.60443
	Equal variances not assumed			-.254	5.979	.808	-.41750	1.64368	-4.44282	3.60782

Pengaruh PVA dan HPMC antar formula

Tests of Normality

	Formula	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Formula I	.333	6	.036	.827	6	.101
	Formula II	.319	6	.056	.683	6	.004
	Formula III	.319	6	.056	.683	6	.004
	K-	.254	6	.200*	.866	6	.212

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

Kruskal Wallis Test

Ranks

	Formula	N	Mean Rank
Nilai	Formula I	6	21.50
	Formula II	6	15.00
	Formula III	6	3.75
	K-	6	9.75
	Total	24	

Test Statistics[a,b]

	Nilai
Chi-Square	21.041
df	3
Asymp. Sig.	.000

a. Kruskal Wallis Test
b. Grouping Variable: Formula

Uji stabilitas daya lekat sediaan masker gel *peel-off* ekstrak daun pepaya

Tests of Normality

	Dayalekat	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Sebelum	.163	4	.	.993	4	.970
	Sesudah	.365	4	.	.813	4	.127

a. Lilliefors Significance Correction

Group Statistics

	Dayalekat	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Sebelum	4	4.8325	2.25496	1.12748
	Sesudah	4	8.0000	3.41066	1.70533

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
Nilai	Equal variances assumed	.593	.471	-1.549	6	.172	-3.16750	2.04435	-8.16984	1.83484
	Equal variances not assumed			-1.549	5.202	.180	-3.16750	2.04435	-8.36188	2.02688

Lampiran 13. Data hasil uji mutu fisik viskositas sediaan masker gel *peel-off* ekstrak daun pepaya

Uji normalitas sediaan

Tests of Normality

	Viskositas	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Hari ke-1	.202	4	.	.970	4	.839
	Hari ke-21	.218	4	.	.956	4	.755

a. Lilliefors Significance Correction

Group Statistics

	Viskositas	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Hari ke-1	4	400.0000	169.46286	84.73143
	Hari ke-21	4	460.8325	180.39835	90.19918

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
Nilai	Equal variances assumed	.029	.871	-.492	6	.640	-60.83250	123.75502	-363.65014	241.98514
	Equal variances not assumed			-.492	5.977	.641	-60.83250	123.75502	-363.93666	242.27166

Pengaruh PVA dan HPMC antar formula sediaan

Tests of Normality

	Formula	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Formula I	.271	6	.191	.807	6	.068
	Formula II	.226	6	.200*	.859	6	.185
	Formula III	.229	6	.200*	.929	6	.570
	K-	.262	6	.200*	.904	6	.396

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

ONE WAY ANOVA (UJI TUKEY TEST)

Multiple Comparisons

Dependent Variable: Nilai
Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula I	Formula II	170.00000*	20.59531	.000	112.3550	227.6450
	Formula III	318.33333*	20.59531	.000	260.6884	375.9783
	K-	396.66667*	20.59531	.000	339.0217	454.3116
Formula II	Formula I	-170.00000*	20.59531	.000	-227.6450	-112.3550
	Formula III	148.33333*	20.59531	.000	90.6884	205.9783
	K-	226.66667*	20.59531	.000	169.0217	284.3116
Formula III	Formula I	-318.33333*	20.59531	.000	-375.9783	-260.6884
	Formula II	-148.33333*	20.59531	.000	-205.9783	-90.6884
	K-	78.33333*	20.59531	.006	20.6884	135.9783
K-	Formula I	-396.66667*	20.59531	.000	-454.3116	-339.0217
	Formula II	-226.66667*	20.59531	.000	-284.3116	-169.0217
	Formula III	-78.33333*	20.59531	.006	-135.9783	-20.6884

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

Nilai

Tukey HSD[a]

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
K-	6	255.0000			
Formula III	6		333.3333		
Formula II	6			481.6667	
Formula I	6				651.6667
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 6.000.

Uji stabilitas viskositas sediaan masker gel *peel-off* ekstrak daun pepaya

Tests of Normality

	Viskositas	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Sebelum	.202	4	.	.970	4	.839
	Sesudah	.225	3	.	.984	3	.756

a. Lilliefors Significance Correction

Group Statistics

	Viskositas	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Sebelum	4	400.0000	169.46286	84.73143
	Sesudah	3	498.8900	120.98387	69.85007

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
Nilai	Equal variances assumed	.749	.426	-.852	5	.433	-98.89000	116.04526	-397.19385	199.41385
	Equal variances not assumed			-.901	5.000	.409	-98.89000	109.81096	-381.17559	183.39559

Lampiran 14. Data hasil uji mutu fisik waktu mengering sediaan masker gel *peel-off* ekstrak daun pepaya

Uji normalitas sediaan

Tests of Normality

	Waktumengering	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Hari ke-1	.235	4	.	.932	4	.604
	Hari ke-21	.242	4	.	.920	4	.536

a. Lilliefors Significance Correction

Group Statistics

	Waktumengering	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Hari ke-1	4	23.9175	4.64477	2.32239
	Hari ke-21	4	25.0825	4.23161	2.11580

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
Nilai	Equal variances assumed	.053	.826	-.371	6	.724	-1.16500	3.14167	-8.85239	6.52239
	Equal variances not assumed			-.371	5.949	.724	-1.16500	3.14167	-8.86850	6.53850

Pengaruh PVA dan HPMC antar formula sediaan

Tests of Normality

	Formula	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Formula I	.490	6	.000	.500	6	.000
	Formula II	.212	6	.200*	.933	6	.607
	Formula III	.283	6	.144	.771	6	.032
	K-	.333	6	.036	.719	6	.010

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

a. Lilliefors Significance Correction

KRUSKAL WALLIS

Ranks

	Formula	N	Mean Rank
Nilai	Formula I	6	10.17
	Formula II	6	13.67
	Formula III	6	19.08
	K-	6	7.08
	Total	24	

Test Statistics[a,b]

	Nilai
Chi-Square	9.622
df	3
Asymp. Sig.	.022

a. Kruskal Wallis Test
b. Grouping Variable: Formula

Uji stabilitas waktu mengering sediaan masker gel *peel-off* ekstrak daun pepaya

Tests of Normality

	Waktumengering	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	Sebelum	.235	4	.	.932	4	.604
	Sesudah	.251	4	.	.927	4	.574

a. Lilliefors Significance Correction

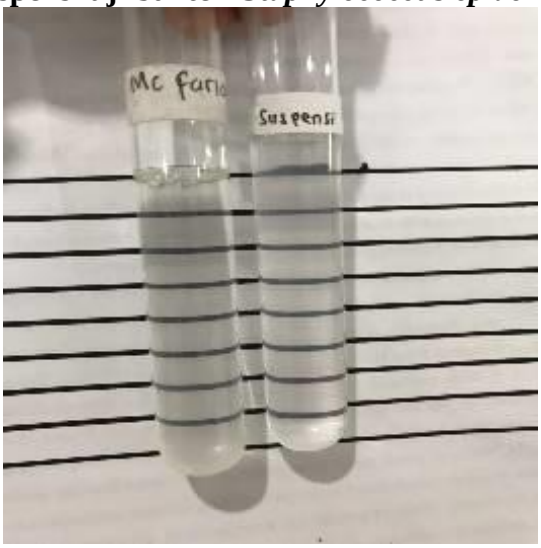
Group Statistics

	Waktumengering	N	Mean	Std. Deviation	Std. Error Mean
Nilai	Sebelum	4	23.9175	4.64477	2.32239
	Sesudah	4	26.5000	3.69685	1.84842

Independent Samples Test

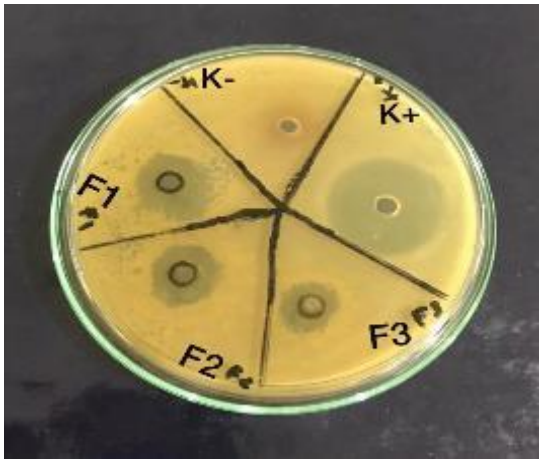
		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Nilai	Equal variances assumed	.221	.655	-.870	6	.418	-2.58250	2.96819	-9.84539	4.68039
	Equal variances not assumed			-.870	5.712	.419	-2.58250	2.96819	-9.93496	4.76996

Lampiran 15. Hasil suspensi uji bakteri *Staphylococcus epidermidis.*

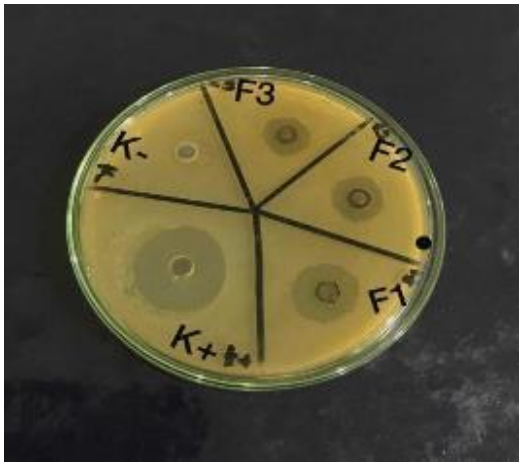


Hasil suspensi uji bakteri *Staphylococcus epidermidis.*

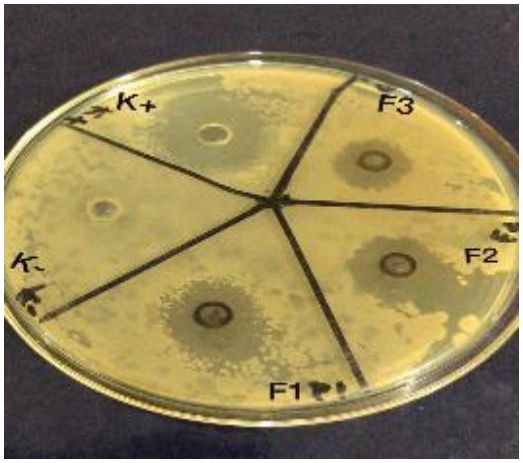
Lampiran 16. Hasil uji aktivitas antibakteri sediaan masker gel *peel-off* ekstrak daun pepaya terhadap bakteri *Staphylococcus epidermidis*



Replikasi 1



Replikasi 2



Replikasi 3

Keterangan :
K- = Sediaan masker gel *peel-off* tanpa ekstrak
K+ = Kontrol positif gel klindamisin 1%
F 1 : Masker gel *peel-off* dengan konsentrasi PVA 12% dan HPMC 1%
F 2 : Masker gel *peel-off* dengan konsentrasi PVA 10% dan HPMC 2%
F 3 : Masker gel *peel-off* dengan konsentrasi PVA 8% dan HPMC 3%

Uji SPSS sediaan masker gel peel-off ekstrak daun pepaya

Tests of Normality[b]

	Formula	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai	F I	.349	3	.	.832	3	.194
	F II	.253	3	.	.964	3	.637
	F III	.232	3	.	.980	3	.726
	K+	.227	3	.	.983	3	.747

a. Lilliefors Significance Correction
b. Nilai is constant when Formula = K-. It has been omitted.

ANOVA

Nilai

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	709.064	4	177.266	1030.616	.000
Within Groups	1.720	10	.172		
Total	710.784	14			

POS HOC

Multiple Comparisons

Dependent Variable: Nilai

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F I	F II	2.90000*	.33862	.000	1.7856	4.0144
	F III	6.00000*	.33862	.000	4.8856	7.1144
	K+	-6.13333*	.33862	.000	-7.2478	-5.0189
	K-	14.66667*	.33862	.000	13.5522	15.7811
F II	F I	-2.90000*	.33862	.000	-4.0144	-1.7856
	F III	3.10000*	.33862	.000	1.9856	4.2144
	K+	-9.03333*	.33862	.000	-10.1478	-7.9189
	K-	11.76667*	.33862	.000	10.6522	12.8811
F III	F I	-6.00000*	.33862	.000	-7.1144	-4.8856
	F II	-3.10000*	.33862	.000	-4.2144	-1.9856
	K+	-12.13333*	.33862	.000	-13.2478	-11.0189
	K-	8.66667*	.33862	.000	7.5522	9.7811
K+	F I	6.13333*	.33862	.000	5.0189	7.2478
	F II	9.03333*	.33862	.000	7.9189	10.1478
	F III	12.13333*	.33862	.000	11.0189	13.2478
	K-	20.80000*	.33862	.000	19.6856	21.9144
K-	F I	-14.66667*	.33862	.000	-15.7811	-13.5522
	F II	-11.76667*	.33862	.000	-12.8811	-10.6522
	F III	-8.66667*	.33862	.000	-9.7811	-7.5522
	K+	-20.80000*	.33862	.000	-21.9144	-19.6856

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

UJI TUKEY

Nilai

Tukey HSD[a]

Formula	N	Subset for alpha = 0.05				
		1	2	3	4	5
K-	3	.0000				
F III	3		8.6667			
F II	3			11.7667		
F I	3				14.6667	
K+	3					20.8000
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.