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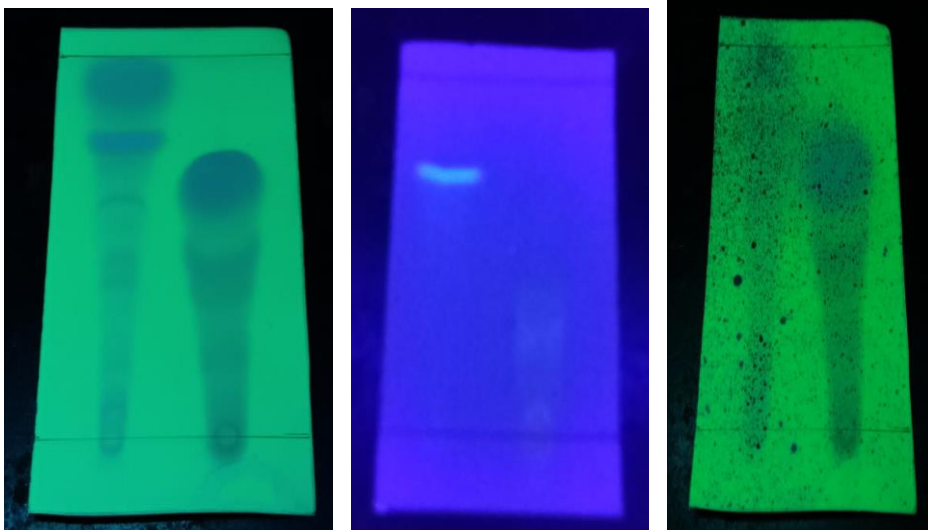
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Lampiran 1. Gambar dan Hasil perhitungan KLT



Keterangan

A = Standar baku

B = Minyak atsiri daun jeruk nipis

Fase diam = Silika gel GF254

Fase gerak = Toluene : Etil asetat (80 : 20)

Perhitungan R_f dan H_{Rf}

$$R_f \text{ Standar baku} = \frac{4,6}{5,4} = 0,85$$

$$H_{Rf} = \frac{4,6}{5,4} \times 100 = 85$$

$$R_f \text{ Minyak atsiri} = \frac{4,5}{5,2} = 0,86$$

$$H_{Rf} = \frac{4,5}{5,2} \times 100 = 86$$



Importer of Essential Oils, Absolutes, and Carrier Oils
 Jakarta, Indonesia Customessentialoil@gmail.com Phone 081295037988

Certificate of Analysis

Issued Date: 09 May 2022

Product Name : **LIME OIL**
 Cust. Code : **LIME OIL DISTILLED**
 Botanical Name : *Citrus aurantifolia* Swingle
 Product Code : 170004
 Batch Number : 211208/177277
 Appearance : Clear Mobile Liquid
 Colour : Colorless – Pale Yellow
 Odor : Intense, Fresh, Citric, Astringent
 Production Date : December 08, 2021
 Shelf Life : 24 Months in fully sealed containers
 Quantity of Purchased : 0.5 Kg
 Packaging : 1 Bottle @ 0.5 Kg

Technical Analysis:

Test Item	Specification	Result
Density (@20°C)	0.8466 – 0.8646	0.8533
Refractive Index (@20°C)	1.4656 – 1.4836	1.4746
Solubility	Insoluble in Water	Conform

Storage Condition : Store unopened containers with temperature between 10°C to 25°C

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DISCLAIMER:

The information contained in this Certificate of Analysis is obtained from current and reliable sources. The information is correct at the time of testing, and the results may vary depending on batch and time of testing. Happy Green shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. The information remains property of Happy Green and should not be propagate or used for any other purpose.

Lampiran 2. Gambar dan Hasil Uji Kelarutan Minyak Atsiri Daun Jeruk Nipis dalam Etanol



Sampel	Kelarutan etanol 90%	Pustaka
Minyak atsiri daun jeruk nipis	1:7 ml	1:7 ml etanol 90%

Lampiran 3. Gambar dan Hasil Uji Penetapan Indeks Bias

Sampel	Indeks bias (32,6°)	Pustaka
Minyak atsiri daun jeruk nipis	1,4725	1,4720-1,4750 (20°C) (Wahyudi et al. 2017)

Lampiran 4. Perhitungan dan Hasil Gambar Penetapan Bobot Jenis Minyak Atsiri Daun Jeruk Nipis

		
Pikno kosong	Pikno + Air	Pikno + Minyak

Perhitungan bobot jenis minyak atsiri daun jeruk nipis

Bobot pikno kosong 50 ml = 16.8345 g

Bobot pikno + air = 41.7222 g

Bobot air = 41.7222 g – 16.8345 g = 24.8877 g

Bobot pikno + minyak = 37.8865 g

Bobot minyak = 37.8865 g – 16.8345 g = 21.052 g

Berat jenis = $\frac{W_2 - W_0}{W_1 - W_0}$

Berat jenis = $\frac{(\text{Bobot pikno+minyak}) - \text{Bobot pikno kosong}}{(\text{Bobot pikno+air}) - \text{Bobot pikno kosong}}$

$$= \frac{37.8865 \text{ g} - 16.8345 \text{ g}}{41.7222 - 16.8345 \text{ g}}$$

$$= \frac{21.052 \text{ g}}{24.8877}$$

$$= 0,845 \text{ b/v}$$

**Lampiran 5. Perhitungan dan penimbangan bahan pembuatan
sediaan krim minyak atsiri daun jeruk nipis**

Bahan	Formulasi			
	F1	F2	F3	F4
Minyak atsiri daun jeruk nipis (<i>Citrus aurantifolia</i> Swingle.)(%)	-	10	10	10
Malam putih (cera alba) (g)	2	2	2	2
Asam Stearat (g)	10	10	15	20
Vaselin Putih (g)	8	8	8	8
Nipasol	0,5	0,5	0,5	0,5
TEA (g)	1,5	1,5	1,5	1,5
Nipagin	0,5	0,5	0,5	0,5
Propilen Glikol (g)	8	8	8	8
Na ₂ HPO ₄	2,04	2,04	2,04	2,04
NaH ₂ PO ₄	3,7	3,7	3,7	3,7
Aquadest ad. (ml)	50	50	50	50

Perhitungan Penimbangan bahan

1. Minyak atsiri daun jeruk nipis 10% $= \frac{10}{100} \times 50 \text{ gram}$
= 5 gram
2. Malam putih (cera alba) $= \frac{2}{100} \times 50 \text{ gram}$
= 1 gram
3. Asam stearat 10% $= \frac{10}{100} \times 50 \text{ gram}$
= 5 gram
- Asam stearat 15% $= \frac{15}{100} \times 50 \text{ gram}$
= 7,5 gram
- Asam stearat 20% $= \frac{20}{100} \times 50 \text{ gram}$
= 10 gram
4. Vaselin kuning $= \frac{8}{100} \times 50 \text{ gram}$
= 4 gram
5. Nipasol $= \frac{0,05}{100} \times 50 \text{ gram}$
= 0,025 gram
6. Triethanolamin $= \frac{1,5}{100} \times 50 \text{ gram}$
= 0,75 gram
7. Propilen glikol $= \frac{8}{100} \times 50 \text{ gram}$

8. Nipagin $= 4 \text{ gram}$
 $= \frac{0,05}{100} \times 50 \text{ gram}$
 $= 0,025 \text{ gram}$
9. NaH_2PO_4 $= \frac{8}{10} \times 50 \text{ gram}$
 $= 40 \text{ gram} \frac{2,55}{100}$
 $= 1,02 \text{ gram}$
10. Na_2HPO_4 $= \frac{2}{10} \times 50 \text{ gram}$
 $= 10 \text{ gram} \frac{1,85}{100}$
 $= 0,185 \text{ gram}$

11. Aquadest ad 50 gram

Konsentrasi As. Stearat 10% = 50 gram -

$(1+5+4+0,025+0,75+4+0,025+1,02+0,185) \text{ gram}$

$$= 50 \text{ gram} - 16,005 = 33,995$$

gram

Konsentrasi As. Stearat 15% = 50 gram -

$(1+7,5+4+0,025+0,75+4+0,025+1,02+0,185) \text{ gram}$

$$= 50 \text{ gram} - 18,505 = 31,495 \text{ gram}$$

Konsentrasi As. Stearat 20% = 50 gram -

$(1+10+4+0,025+0,75+4+0,025+1,02+0,185) \text{ gram}$

$$= 50 \text{ gram} - 21,005 = 28,995$$

gram

Lampiran 6. Pembuatan sediaan krim minyak atsiri daun jeruk nipis



Persiapan bahan sediaan



Penimbangan bahan

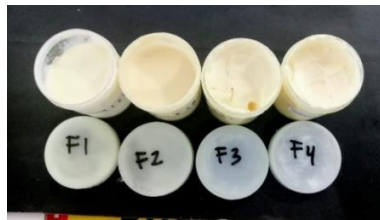


Proses peleburan fase minyak dan pemanasan fase air

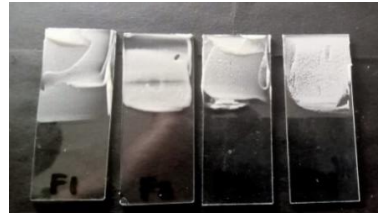


Pembuatan sediaan krim

Lampiran 7. Hasil pengujian mutu fisik sediaan krim minyak atsiri daun jeruk nipis



Formula



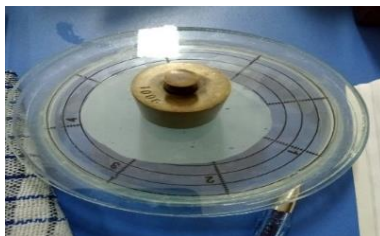
Uji Homogenitas



Uji pH



Uji Daya lekat



Uji Daya sebar



Uji Tipe krim



Uji Viskositas



Kontrol positif (krim cloramfenicol 2%)

Lampiran 8. Hasil uji organoleptis

Formula	Hari ke	Organoleptis		
		Aroma	Bentuk	Warna
1	1	Bau khas	Krim	Putih
	21	Bau khas	Krim	Putih
2	1	Khas minyak atsiri daun jeruk nipis	Krim	Putih kekuningan
	21	Khas minyak atsiri daun jeruk nipis	Krim	Putih kekuningan
3	1	Khas minyak atsiri daun jeruk nipis	Krim	Putih kekuningan
	21	Khas minyak atsiri daun jeruk nipis	Krim	Putih kekuningan
4	1	Khas minyak atsiri daun jeruk nipis	Krim	Putih kekuningan
	21	Khas minyak atsiri daun jeruk nipis	Krim	Putih kekuningan

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

Lampiran 9. Hasil uji homogenitas

Formula	Homogenitas	
	Hari Ke-1	Hari ke-21
1	Homogen	Homogen
2	Homogen	Homogen
3	Homogen	Homogen
4	Homogen	Homogen

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

Lampiran 10. Hasil uji pH dengan pH meter

Waktu	Formula	Uji pH			Rata-rata	SD
		R 1	R2	R3		
Hari ke-1	1	6,21	6,23	6,21	6,21	0,01
	2	6,12	6,19	6,15	6,15	0,03
	3	6,02	6,05	6,02	6,03	0,01
	4	6,10	6,12	6,05	6,09	0,03
Hari ke-2	1	6,30	6,32	6,3	6,30	0,01
	2	6,17	6,20	6,17	6,18	0,01
	3	6,07	6,10	6,03	6,06	0,03
	4	6,15	6,18	6,15	6,16	0,01

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

Lampiran 11. Hasil SPSS uji pH

1. UJI NORMALITAS

Tests of Normality

FORMULA		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH_1	F1	.175	3	.	1.000	3	1.000
	F2	.204	3	.	.993	3	.843
	F3	.253	3	.	.964	3	.637
	F4	.276	3	.	.942	3	.537
pH_21	F1	.175	3	.	1.000	3	1.000
	F2	.253	3	.	.964	3	.637
	F3	.204	3	.	.993	3	.843
	F4	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
pH_1	1.780	3	8	.229
pH_21	1.524	3	8	.281

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
pH_1	Between Groups	.058	3	.019	27.143	.000
	Within Groups	.006	8	.001		
	Total	.064	11			
pH_21	Between Groups	.090	3	.030	66.735	.000
	Within Groups	.004	8	.000		
	Total	.094	11			

3. UJI POST HOC

pH_1Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05		
		1	2	3
F3	3	6.0333		
F4	3	6.0900	6.0900	
F2	3		6.1533	6.1533
F1	3			6.2200
Sig.		.118	.077	.062

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

pH_21Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05		
		1	2	3
F3	3	6.0667		
F4	3		6.1633	
F2	3		6.1833	
F1	3			6.3100
Sig.		1.000	.669	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

4. UJI PAIRED T-TEST**Paired Samples Statistics**

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	pH_1	6.1242	12	.07633	.02204
	pH_21	6.1808	12	.09229	.02664

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 pH_1 & pH_21	12	.936	.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	pH_1 - pH_21	-.05667	.03393	.00980	-.07823	-.03511	-5.785	11	.000

Lampiran 12. Hasil uji viskositas

Waktu	Formula	Uji viskositas (cP)			Rata-rata	Konversi dPas	SD
		R 1	R 2	R 3			
Hari ke-1	1	102,510	101,930	102,750	102,3967	10,23	0,42
	2	132,150	135,872	133,590	133,8707	13,38	1,87
	3	200,000	213,510	200,950	207,23	20,72	8,88
	4	302,000	292,350	295,270	296,54	29,65	4,94
Hari ke-21	1	120,765	123,515	121,550	121,9433	12,19	1,41
	2	135,620	142,530	135,950	138,0333	13,80	3,89
	3	212,200	198,520	209,675	206,7983	20,67	7,27
	4	321,375	292,450	295,372	303,0657	30,30	15,92

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

Lampiran 13. Hasil SPSS uji viskositas

1. UJI NORMALITAS

Tests of Normality

FORMULA		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
VISKOSITAS__1	F1	.239	3	.	.975	3	.696
	F2	.224	3	.	.984	3	.759
	F3	.323	3	.	.879	3	.322
	F4	.266	3	.	.952	3	.579
VISKOSITAS__21	F1	.275	3	.	.943	3	.541
	F2	.370	3	.	.787	3	.083
	F3	.322	3	.	.880	3	.323
	F4	.351	3	.	.828	3	.183

a. Lilliefors Significance Correction

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
VISKOSITAS__1	3.464	3	8	.071
VISKOSITAS__21	3.302	3	8	.079

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
VISKOSITAS__1	Between Groups	1.969	3	.656	1499.161	.000
	Within Groups	.004	8	.000		
	Total	1.973	11			
VISKOSITAS__21	Between Groups	1.536	3	.512	420.729	.000
	Within Groups	.010	8	.001		
	Total	1.545	11			

3. UJI POST HOC

VISKOSITAS__1

Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05			
		1	2	3	4
F1	3	4.6314			
F2	3		4.8968		
F3	3			5.3240	
F4	3				5.6921
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

VISKOSITAS__21

Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05			
		1	2	3	4
F1	3	4.8035			
F2	3		4.9272		
F3	3			5.3313	
F4	3				5.7130
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

4. UJI PAIRED T-TEST

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 VISKOSITAS__1	5.1361	12	.42348	.12225
VIKOSITAS__21	5.1938	12	.37483	.10820

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 VISKOSITAS__1 & VIKOSITAS__21	12	.988	.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	VISKOSITAS__1 - VISKOSITAS__21	-.05770	.07787	.02248	-.10718	-.00822	-2.567	11	.026

Lampiran 14. Hasil uji daya sebar

Formula	Waktu	Beban	Uji daya sebar			Rata-rata	SD
			R1	R2	R3		
1	Hari ke-1	0	4,5	4,3	4,2	4,33	0,15
		50	5	5	5,2	5,06	0,12
		100	6	5,6	5,5	5,70	0,26
		150	6,2	6,4	6,2	6,26	0,12
		200	6,7	6,6	6,8	6,70	0,10
	Hari ke-21	0	4,8	4,6	4,6	4,66	0,12
		50	5,4	5,3	5,6	5,43	0,15
		100	6,3	5,9	6,0	6,06	0,21
		150	6,5	6,8	6,5	6,6	0,17
		200	6,9	6,8	6,8	6,83	0,06
2	Hari ke-1	0	4,3	4,2	4,2	4,23	0,06
		50	5,2	5,7	5,5	5,46	0,25
		100	5,7	5,7	5,6	5,66	0,06
		150	6,3	6,4	6,3	6,33	0,06
		200	6,7	6,7	6,8	6,73	0,06
	Hari ke-21	0	4,5	4,6	4,5	4,53	0,06
		50	5,5	5,6	5,7	5,60	0,10
		100	6,2	6,1	6,2	6,16	0,06
		150	6,5	6,6	6,6	6,56	0,06
		200	6,9	7	6,9	6,93	0,06
3	Hari ke-1	0	4,2	4,3	4,3	4,26	0,06
		50	5,1	5,3	5,2	5,20	0,10
		100	5,5	5,6	5,6	5,56	0,06
		150	5,9	6,2	6,0	6,03	0,15
		200	6,3	6,5	6,5	6,43	0,12
	Hari ke-21	0	4,4	4,6	4,4	4,46	0,12
		50	5,5	5,3	5,6	5,46	0,15
		100	5,7	6,2	5,7	5,86	0,29
		150	6,6	6,8	6,5	6,63	0,15
		200	6,7	6,8	6,7	6,73	0,06
4	Hari ke-1	0	4,3	4,6	5,2	4,7	0,46
		50	5,1	5,0	5,3	5,13	0,15
		100	5,4	5,5	5,5	5,46	0,06
		150	5,9	6,1	5,7	5,90	0,20
		200	6,2	6,3	6,2	6,23	0,06
	Hari ke-21	0	4,4	4,6	4,2	4,40	0,20
		50	5,1	5,2	5,1	5,13	0,06
		100	5,5	5,8	5,8	5,7	0,17
		150	6,1	6,3	6,3	6,23	0,12
		200	6,5	6,4	6,6	6,5	0,10

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

Lampiran 15. Hasil SPSS uji daya sebar

1. UJI NORMALITAS

Tests of Normality

FORMULA	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
DAYA_SEBAR_1 F1	.155	5	.200 [*]	.977	5	.918
F2	.208	5	.200 [*]	.953	5	.757
F3	.161	5	.200 [*]	.972	5	.886
F4	.154	5	.200 [*]	.984	5	.955
DAYA_SEBAR_21 F1	.180	5	.200 [*]	.948	5	.723
F2	.186	5	.200 [*]	.949	5	.733
F3	.206	5	.200 [*]	.926	5	.569
F4	.174	5	.200 [*]	.959	5	.802

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

a. Lilliefors Significance Correction

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
DAYA_SEBAR_1	.301	3	16	.824
DAYA_SEBAR_21	.011	3	16	.998

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DAYA_SEBAR_1	Between Groups	.135	3	.045	.063	.979
	Within Groups	11.483	16	.718		
	Total	11.618	19			
DAYA_SEBAR_21	Between Groups	.399	3	.133	.164	.919
	Within Groups	12.995	16	.812		
	Total	13.394	19			

3. UJI POST HOC

DAYA_SEBAR_1Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05
		1
F4	5	5.4840
F3	5	5.4960
F1	5	5.6100
F2	5	5.6820
Sig.		.982

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 5.000.

DAYA_SEBAR_21Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05
		1
F4	5	5.5920
F3	5	5.8280
F1	5	5.9160
F2	5	5.9560
Sig.		.918

Means for groups in homogeneous subsets are displayed.

4. UJI PAIRED T-TEST**Paired Samples Statistics**

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 DAYA_SEBAR_1	5.5680	20	.78197	.17485
DAYA_SEBAR_21	5.8230	20	.83961	.18774

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 DAYA_SEBAR_1 & DAYA_SEBAR_21	20	.977	.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	DAYA_SEBAR_1 - DAYA_SEBAR_21	-.25500	.18309	.04094	-.34069	-.16931	-6.229	19	.000

Lampiran 16. Hasil uji daya lekat

Formula	Waktu	Uji daya lekat			Rata-rata	SD
		R 1	R 2	R3		
1	Hari ke-1	0,43	0,56	0,49	0,495	0,27
	Hari ke-21	0,55	0,67	0,62	0,613	0,06
2	Hari ke-1	0,45	0,61	0,53	0,53	0,08
	Hari ke-21	0,59	0,78	0,62	0,663	0,10
3	Hari ke-1	0,44	0,59	0,45	0,493	0,08
	Hari ke-21	0,57	0,75	0,60	0,64	0,09
4	Hari ke-1	0,49	0,54	0,57	0,533	0,04
	Hari ke-21	0,64	0,73	0,69	0,686	0,042

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

Lampiran 17. Hasil SPSS uji daya lekat

1. Uji NORMALITAS

Tests of Normality

FORMULA		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DAYA_LEKAT_1	F1	.187	3	.	.998	3	.915
	F2	.175	3	.	1.000	3	1.000
	F3	.364	3	.	.800	3	.114
	F4	.232	3	.	.980	3	.726
DAYA_LEKAT_21	F1	.211	3	.	.991	3	.817
	F2	.331	3	.	.865	3	.281
	F3	.328	3	.	.871	3	.298
	F4	.196	3	.	.996	3	.878

a. Lilliefors Significance Correction

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
DAYA_LEKAT_1	.590	3	8	.639
DAYA_LEKAT_21	1.533	3	8	.279

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DAYA_LEKAT_1	Between Groups	.004	3	.001	.306	.821
	Within Groups	.039	8	.005		
	Total	.043	11			
DAYA_LEKAT_21	Between Groups	.009	3	.003	.467	.714
	Within Groups	.051	8	.006		
	Total	.060	11			

3. UJI POST HOC

DAYA_LEKAT_1

Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05
		1
F1	3	.4933
F3	3	.4933
F2	3	.5300
F4	3	.5333
Sig.		.892

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

DAYA_LEKAT_21

Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05
		1
F1	3	.6133
F3	3	.6400
F2	3	.6633
F4	3	.6867
Sig.		.684

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

4. UJI PAIRED T-TEST

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	DAYA_LEKAT_1	.5125	12	.06254	.01805
	DAYA_LEKAT_21	.6508	12	.07366	.02127

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	DAYA_LEKAT_1 & DAYA_LEKAT_21	12	.931	.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	DAYA_LEKAT_1 - DAYA_LEKAT_21	-.13833	.02758	.00796	-.15586	-.12081	-17.376	11	.000

Lampiran 18. Hasil uji stabilitas (homogenitas, pH, viskositas)

Formula	Waktu	Uji stabilitas homogenitas		
		R1	R2	R3
1	Sebelum	Homogen	Homogen	Homogen
	Sesudah	Homogen	Homogen	Homogen
2	Sebelum	Homogen	Homogen	Homogen
	Sesudah	Homogen	Homogen	Homogen
3	Sebelum	Homogen	Homogen	Homogen
	Sesudah	Homogen	Homogen	Homogen
4	Sebelum	Homogen	Homogen	Homogen
	Sesudah	Homogen	Homogen	Homogen

Formula	Waktu	Uji stabilitas pH			Rata-rata	SD
		R1	R2	R3		
1	Sebelum	6,30	6,32	6,30	6,30	0,01
	Sesudah	6,21	6,23	6,21	6,21	0,01
2	Sebelum	6,17	6,20	6,17	6,18	0,01
	Sesudah	6,12	6,19	6,15	6,15	0,03
3	Sebelum	6,07	6,10	6,03	6,06	0,03
	Sesudah	6,02	6,05	6,02	6,03	0,01
4	Sebelum	6,15	6,18	6,15	6,16	0,01
	Sesudah	6,10	6,12	6,05	6,09	0,03

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

1. UJI NORMALITAS

Tests of Normality

FORMULA		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
STABILITAS_pH_SEBELUM	F1	.175	3	.	1.000	3	1.000
	F2	.204	3	.	.993	3	.843
	F3	.253	3	.	.964	3	.637
	F4	.276	3	.	.942	3	.537
STABILITAS_pH_SESUDAH	F1	.175	3	.	1.000	3	1.000
	F2	.253	3	.	.964	3	.637
	F3	.204	3	.	.993	3	.843
	F4	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
STABILITAS_pH_SEBELUM	1.780	3	8	.229
STABILITAS_pH_SESUDAH	1.524	3	8	.281

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
STABILITAS_pH_SEBELUM	Between Groups	.058	3	.019	27.143	.000
	Within Groups	.006	8	.001		
	Total	.064	11			
STABILITAS_pH_SESUDAH	Between Groups	.090	3	.030	66.735	.000
	Within Groups	.004	8	.000		
	Total	.094	11			

3. UJI POST HOC

STABILITAS_pH_SEBELUM

Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05		
		1	2	3
F3	3	6.0333		
F4	3	6.0900	6.0900	
F2	3		6.1533	6.1533
F1	3			6.2200
Sig.		.118	.077	.062

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

STABILITAS_pH_SESUDAH

Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05		
		1	2	3
F3	3	6.0667		
F4	3		6.1633	
F2	3		6.1833	
F1	3			6.3100
Sig.		1.000	.669	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

4. UJI PAIRED T-TEST

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 STABILITAS_pH_SEBELUM	6.1242	12	.07633	.02204
STABILITAS_pH_SESUDAH	6.1808	12	.09229	.02664

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 STABILITAS_pH_SEBELUM & STABILITAS_pH_SESUDAH	12	.936	.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	STABILITAS_pH_SEBELUM - STABILITAS_pH_SESUDAH	-.05667	.03393	.00980	-.07823	-.03511	-5.785	11	.000

Formula	Waktu	Uji stabilitas viskositas (cP)			Rata-rata	Konversi dPas	SD
		R1	R2	R3			
1	Sebelum	120,765	123,515	121,550	121,9433	12,19	1,41
	Sesudah	102,510	101,930	102,750	102,3967	10,23	0,42
2	Sebelum	135,620	142,530	135,950	138,0333	13,80	3,89
	Sesudah	132,150	135,872	133,590	134,731	13,47	1,61
3	Sebelum	212,200	198,520	209,675	206,7983	20,67	7,27
	Sesudah	200,000	213,510	200,950	207,23	20,72	8,88
4	Sebelum	321,375	292,450	295,372	303,0657	30,30	17,03
	Sesudah	302,000	292,350	295,270	296,54	29,65	4,94

Keterangan :

Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

1. UJI NORMALITAS

Tests of Normality

FORMULA	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
VISKOSITAS__1	F1	.239	3	.975	3	.696
	F2	.224	3	.984	3	.759
	F3	.323	3	.879	3	.322
	F4	.266	3	.952	3	.579
VISKOSITAS__21	F1	.275	3	.943	3	.541
	F2	.370	3	.787	3	.083
	F3	.322	3	.880	3	.323
	F4	.351	3	.828	3	.183

a. Lilliefors Significance Correction

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
STABILITAS_VISKOSITAS__SEBELUM	3.336	3	8	.077
STABILITAS_VISKOSITAS__SESUDAH	3.302	3	8	.079

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
STABILITAS_VISKOSITAS__SEBELUM	Between Groups	1.973	3	.658	1492.709	.000
	Within Groups	.004	8	.000		
	Total	1.977	11			
STABILITAS_VISKOSITAS__SESUDAH	Between Groups	1.536	3	.512	420.729	.000
	Within Groups	.010	8	.001		
	Total	1.545	11			

3. UJI POST HOC

STABILITAS_VISKOSITAS__SEBELUMTukey HSD^a

FORMULA	N	Subset for alpha = 0.05			
		1	2	3	4
F1	3	4.6301			
F2	3		4.8968		
F3	3			5.3240	
F4	3				5.6921
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

STABILITAS_VISKOSITAS__SESUDAHTukey HSD^a

FORMULA	N	Subset for alpha = 0.05			
		1	2	3	4
F1	3	4.8035			
F2	3		4.9272		
F3	3			5.3313	
F4	3				5.7130
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

4. UJI PAIRED T-TEST

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 STABILITAS_VISKOSITAS__SEBELUM	5.1357	12	.42392	.12237
STABILITAS_VISKOSITAS__SESUDAH	5.1938	12	.37483	.10820

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 STABILITAS_VISKOSITAS__SEBELUM & STABILITAS_VISKOSITAS__SESUDAH	12	.988	.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 STABILITAS_VISKOSITAS _SEBELUM - STABILITAS_VISKOSITAS _SESUDAH	-.05803	.07838	.02263	-.10783	-.00824	-2.565	11	.026

Lampiran 19. Hasil uji daya hambat minyak atsiri daun jeruk nipis

Konsentrasi	Daya hambat (mm)			Rata-rata	SD
	R1	R2	R3		
K (-)	-	-	-	-	-
K (+)	17,9	19,3	17,5	18,23	0,94
5 %	13,2	15,3	13,4	13,96	1,15
10 %	21,1	19,3	19,7	20,03	0,94
15 %	23,0	25,2	22,5	23,56	1,43

Keterangan :

K + : Krim Chlramfenicol 2%

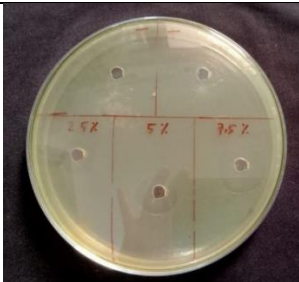
K - : CMCNa 0,1%

5 % : Konsentrasi minyak atsiri daun jeruk nipis 5 %

10 % : Konsentrasi minyak atsiri daun jeruk nipis 10 %

15 % : Konsentrasi minyak atsiri daun jeruk nipis 15 %

Gambar Hasil uji

Replikasi 1	
Replikasi 2	
Replikasi 3	

Lampiran 20. Hasil SPSS uji daya hambat minyak atsiri daun jeruk nipis

1. UJI NORMALITAS

Tests of Normality^a

KONSENTRASI	Kolmogorov-Smirnov ^b			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
DAYA_HAMBAT_MA_JERUK	.301	3	.	.912	3	.424
5%	.352	3	.	.826	3	.177
10%	.215	3	.	.989	3	.800
15%	.316	3	.	.889	3	.351

a. There are no valid cases for DAYA_HAMBAT_MA_JERUK when KONSENTRASI = 1.000. Statistics cannot be computed for this level.

b. Lilliefors Significance Correction

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Test of Homogeneity of Variances

DAYA_HAMBAT_MA_JERUK

Levene Statistic	df1	df2	Sig.
1.939	3	8	.202

ANOVA

DAYA_HAMBAT_MA_JERUK

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.081	3	.027	42.131	.000
Within Groups	.005	8	.001		
Total	.086	11			

3. UJI POST HOC

DAYA_HAMBAT_MA_JERUK

Tukey HSD^a

KONSENTRASI	N	Subset for alpha = 0.05		
		1	2	3
5%	3	1.1441		
K (+)	3		1.2605	
10%	3		1.2985	
15%	3			1.3718
Sig.		1.000	.325	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 21. Hasil uji daya hambat sediaan krim minyak atsiri daun jeruk nipis

Konsentrasi	Daya hambat (mm)			Rata-rata	SD
	R1	R2	R3		
K (+)	19,4	18,7	18,5	18,86	0,47
F 1	-	-	-	-	-
F 2	18,3	12,4	13,8	14,83	3,08
F 3	16,5	15,8	16,2	16,16	0,35
F 4	17,5	18,4	17,9	17,93	0,45

Keterangan :

K (+) : Krim Chloramfenicol 2%

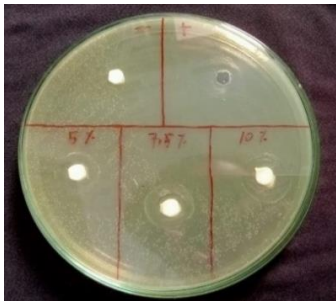
Formula 1 : krim tanpa minyak atsiri daun jeruk nipis sebagai kontrol negatif

Formula 2 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 10%

Formula 3 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 15%

Formula 4 : krim minyak atsiri daun jeruk nipis dengan basis asam stearat 20%

Gambar Hasil uji

Replikasi 1	
Replikasi 2	
Replikasi 3	

Lampiran 22. Hasil SPSS uji daya hambat sediaan krim minyak atsiri daun jeruk nipis

1. UJI NORMALITAS

Test of Homogeneity of Variances

DAYA_HAMBAT_KRIM_MA

Levene Statistic	df1	df2	Sig.
2.584	3	8	.126

ANOVA

DAYA_HAMBAT_KRIM_MA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.183	3	.061	24.132	.000
Within Groups	.020	8	.003		
Total	.203	11			

2. UJI HOMOGENITAS DAN ONE WAY ANOVA

Tests of Normality^b

	FORMULA	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DAYA_HAMBAT_KRIM_M A	K (+)	.303	3	.	.909	3	.416
	F2	.212	3	.	.990	3	.809
	F3	.207	3	.	.992	3	.831
	F4	.193	3	.	.997	3	.891

a. Lilliefors Significance Correction

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

3. UJI POST HOC

DAYA_HAMBAT_KRIM_MA

Tukey HSD^a

FORMULA	N	Subset for alpha = 0.05		
		1	2	3
F2	3	2.6141		
F3	3		2.7828	
F4	3		2.8865	2.8865
K (+)	3			2.9372
Sig.		1.000	.130	.624

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.