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Lampiran 1. Hasil determinasi tanaman daun kelor



KEMENTERIAN KESEHATAN REPUBLIK INDONESIA
BADAN PENELITIAN DAN PENGEMBANGAN KESEHATAN
 BALAI BESAR PENELITIAN DAN PENGEMBANGAN
 TANAMAN OBAT DAN OBAT TRADISIONAL
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Nomor : KM.04.02/2/2679/2021 21 November 2021
 Lampiran : -
 Hal : Keterangan Determinasi

Yth. Dekan Fakultas Farmasi Universitas Setia Budi
 Jalan Letjend. Sutoyo Solo 57127

Merujuk surat Saudara nomor: 470/H6-04/10.09.2021 tanggal 10 September 2021 hal permohonan determinasi, dengan ini kami sampaikan bahwa hasil determinasi sampel tanaman sebagai berikut:

Nama Pemohon : Florencia Septiani
 Nama Sampel : Kelor
 Sampel : Segar
 Spesies : *Moringa oleifera* Lam.
 Sinonim : *Guilandina moringa* L.; *Moringa zeylanica* Burmann
 Familia : Moringaceae
 Penanggung Jawab : Isna Jati Asiyah, M.Sc.

Hasil determinasi tersebut hanya mencakup sampel tanaman yang telah dikirimkan ke B2P2TOOT.

Atas perhatian Saudara, kami sampaikan terima kasih.

Kepala Balai Besar Penelitian
 dan Pengembangan Tanaman Obat
 dan Obat Tradisional
 Tawangmangu,



Akhmad Saikhu, S.K.M.,
M.Sc.PH.
 NIP 196805251992031004

Tembusan :
 -

Lampiran 2. Perhitungan dan hasil presentase rendemen bobot kering terhadap bobot basah daun kelor

Bobot Basah (kg)	Bobot Kering (kg)	Rendemen (%b/b)
10	1	10

Perhitungan :

$$\begin{aligned}\% \text{ rendemen kering} &= \frac{\text{Berat kering}}{\text{Berat basah}} \times 100\% \\ &= \frac{1}{10} \times 100\% \\ &= 10\%\end{aligned}$$

Lampiran 3. Perhitungan dan hasil penetapan kadar air serbuk daun kelor

No	Bobot serbuk (g)	Volume air (mL)	Kadar air (%v/b)
1	10,041 gram	0,9	8,96
2	10,158 gram	0,7	6,89
3	10,049 gram	0,8	7,96
Rata – rata ± SD			7,93 ± 1,03

Perhitungan :

Kadar air serbuk 1

- Bobot kertas kosong = 4,831 gram
- Bobot kertas + serbuk = 15 gram
- Bobot kertas + sisa = 4,959 gram
- Bobot serbuk (15 g – 4,959 g) = 10,041 gram
- Volume air = 0,9 mL

$$= \frac{0,9}{10,041} \times 100$$

$$= 8,96\%$$

Kadar air serbuk 2

- Bobot kertas kosong = 4,840 gram
- Bobot kertas + serbuk = 15 gram
- Bobot kertas + sisa = 4,842 gram
- Bobot serbuk (15 g – 4,842 g) = 10,158 gram
- Volume air = 0,7 mL

$$= \frac{0,7}{10,158} \times 100$$

$$= 6,89\%$$

Kadar air serbuk 3

- Bobot kertas kosong = 4,855 gram
- Bobot kertas + serbuk = 15 gram
- Bobot kertas + sisa = 4,951 gram
- Bobot serbuk (15 g – 4,951 g) = 10,049 gram
- Volume air = 0,8 mL

$$\begin{aligned} &= \frac{0,8}{10,049} \times 100 \\ &= 7,96\% \end{aligned}$$

$$\begin{aligned} \text{Rata – rata kadar air serbuk daun kelor} &= \frac{8,96\%+6,89\%+7,96\%}{3} \\ &= 7,93\% \end{aligned}$$

Lampiran 4. Perhitungan dan hasil rendemen ekstrak daun kelor

Bobot serbuk (g)	Bobot ekstrak (g)	Rendemen (%b/b)
700	167	23,86

Perhitungan :

$$\begin{aligned}\% \text{ rendemen ekstrak} &= \frac{\text{Bobot ekstrak}}{\text{Bobot serbuk}} \\ &= \frac{167}{700} \times 100\% \\ &= 23,86\%\end{aligned}$$

Gambar proses maserasi :



Lampiran 5. Perhitungan dan hasil penetapan susut pengeringan ekstrak daun kelor

Ekstrak	Penimbangan	Kadar lembab (%v/b)
	2,0 gram	8,9
Daun kelor	2,0 gram	9,4
	2,0 gram	8,4
Rata – rata ± SD		8,9 ± 0,50

Perhitungan :




Susut pengeringan 1 = 8,9%

Susut pengeringan 2 = 9,4%

Susut pengeringan 3 = 8,4%

$$\text{Rata-rata susut pengeringan} = \frac{8,9\%+9,4\%+8,4\%}{3}$$

$$= 8,9\%$$

Hasil		
Susut pengeringan 1	Susut pengeringan 2	Susut pengeringan 3
		

Lampiran 6. Perhitungan dan hasil penetapan bobot jenis ekstrak etanol daun kelor

Pengujian	Hasil (g/mL)			Rerata ± SD
	I	II	III	
Bobot jenis	1,0186	1,0198	1,0201	1,0195 ± 0,0007

Perhitungan :

Bobot jenis 1

- Bobot piknometer 50 ml kosong = 32,7340 gram
- Bobot piknometer + air = 82,5424 gram
- Bobot piknometer + ekstrak = 83,470 gram
- Bobot ekstrak = 83,470 – 32,7340 = 50,736 gram
- Bobot air = 82,5424 - 32,7340 = 49,8084 gram

$$= \frac{w_2 - w_0}{w_1 - w_0}$$

$$= \frac{\text{Bobot pikno+ekstrak} - \text{bobot pikno kosong}}{\text{Bobot pikno+air} - \text{bobot pikno kosong}}$$

$$= \frac{\text{Bobot ekstrak}}{\text{Bobot air}}$$

$$= \frac{50,736}{49,8084}$$

$$= 1,0186 \text{ g/mL}$$

Bobot jenis 2

- Bobot piknometer 50 ml kosong = 32,7340 gram
- Bobot piknometer + air = 82,5424 gram
- Bobot piknometer + ekstrak = 83,5331 gram
- Bobot ekstrak = 83,5331 – 32,7340 = 50,7991 gram
- Bobot air = 82,5424 - 32,7340 = 49,8084 gram

$$= \frac{w_2 - w_0}{w_1 - w_0}$$

$$= \frac{\text{Bobot pikno+ekstrak} - \text{bobot pikno kosong}}{\text{Bobot pikno+air} - \text{bobot pikno kosong}}$$

$$= \frac{\text{Bobot ekstrak}}{\text{Bobot air}}$$

$$= \frac{50,7991}{49,8084}$$

$$= 1,0198 \text{ g/mL}$$

Bobot jenis 3

- Bobot piknometer 50 ml kosong = 32,7340 gram
- Bobot piknometer + air = 82,5424 gram
- Bobot piknometer + ekstrak = 83,5475 gram
- Bobot ekstrak = $83,5475 - 32,7340 = 50,8135$ gram
- Bobot air = $82,5424 - 32,7340 = 49,8084$ gram

$$= \frac{w_2 - w_0}{w_1 - w_0}$$

$$= \frac{\text{Bobot pikno+ekstrak} - \text{bobot pikno kosong}}{\text{Bobot pikno+air} - \text{bobot pikno kosong}}$$


$$= \frac{\text{Bobot ekstrak}}{\text{Bobot air}}$$

$$= \frac{50,8135}{49,8084}$$

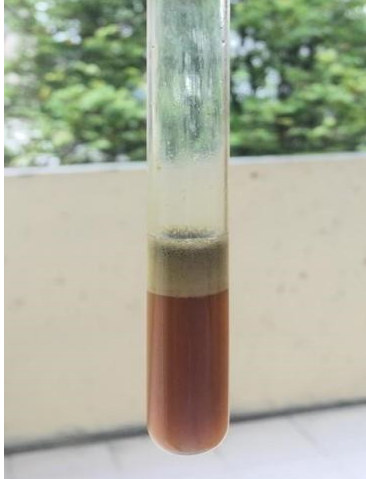


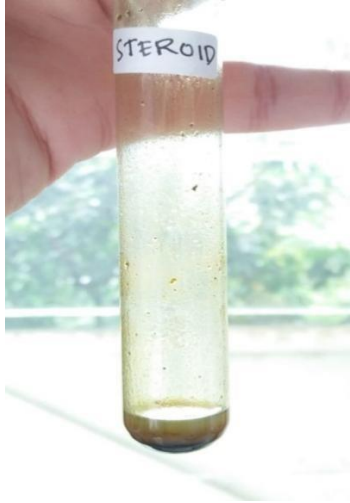


$$= 1,0201 \text{ g/mL}$$

$$\begin{aligned} \text{Rata-rata bobot jenis} &= \frac{1,0186\% + 1,0198\% + 1,0201\%}{3} \\ &= 1,0195 \text{ g/mL} \end{aligned}$$

Lampiran 7. Gambar dan hasil uji bebas etanol ekstrak daun kelor

Hasil	Gambar
Hasil (+) Tidak tercium aroma ester	 A photograph showing a hand holding a test tube vertically. The test tube contains a dark brown, opaque liquid. A white label is attached to the top of the test tube with the handwritten text "UJI BEBAS ETANOL". The background shows a laboratory sink and tiled counter.

Lampiran 8. Hasil identifikasi senyawa kimia ekstrak daun kelor

<p>Hasil pengujian flavonoid</p> 	<p>Hasil pengujian tanin</p> 
<p>Hasil pengujian saponin</p> 	<p>Hasil pengujian triterpenoid/steroid</p> 
<p>Hasil pengujian alkaloid (mayer)</p> 	<p>Hasil pengujian alkaloid (wagner)</p> 

Hasil pengujian alkaloid
(Dragendorf)



Lampiran 9. Hasil pengujian mutu fisik gel *facial wash* ekstrak daun kelor

<p>a. Formula</p> 	<p>b. Homogenitas</p> 
<p>c. Uji Viskositas</p> 	<p>d. Uji pH</p> 
<p>e. Uji Daya Busa</p> 	

Lampiran 10. Hasil uji organoleptis gel *facial wash* ekstrak etanol daun kelor

Formula	Hari ke	Organoleptis		
		Bentuk	Bau	Warna
0	1	Gel <i>Facial Wash</i>	Bau Khas	Putih
	21	Gel <i>Facial Wash</i>	Bau Khas	Putih
1	1	Gel <i>Facial Wash</i>	Khas ekstrak	Coklat
	21	Gel <i>Facial Wash</i>	Khas ekstrak	Coklat
2	1	Gel <i>Facial Wash</i>	Khas ekstrak	Coklat
	21	Gel <i>Facial Wash</i>	Khas ekstrak	Coklat
3	1	Gel <i>Facial Wash</i>	Khas mentol	Coklat
	21	Gel <i>Facial Wash</i>	Khas mentol	Coklat

Keterangan :

F0 : Formula tanpa konsentrasi ekstrak daun kelor

F1 : Formula dengan konsentrasi ekstrak daun kelor 2,5%

F2 : Formula dengan konsentrasi ekstrak daun kelor 5%

F3 : Formula dengan konsentrasi ekstrak daun kelor 7,5%

Lampiran 11. Hasil uji homogenitas gel *facial wash* ekstrak etanol daun kelor

Formula	Homogenitas
0	Homogen
1	Homogen
2	Homogen
3	Homogen

Keterangan :

F0 : Formula tanpa konsentrasi ekstrak daun kelor

F1 : Formula dengan konsentrasi ekstrak daun kelor 2,5%

F2 : Formula dengan konsentrasi ekstrak daun kelor 5%

F3 : Formula dengan konsentrasi ekstrak daun kelor 7,5%

Lampiran 12. Hasil uji viskositas gel *facial wash* ekstrak etanol daun kelor

Waktu	Formula	Uji viskositas			Rata-rata	SD
		R1	R2	R3		
Hari ke-1	0	160	150	150	153.33	5.77
	1	140	150	140	143.33	5.77
	2	130	140	130	133.33	5.77
	3	120	130	130	126.67	5.77
Hari ke-21	0	150	140	160	150	10.00
	1	140	150	130	140	10.00
	2	140	130	120	130	10.00
	3	120	130	120	123.33	5.77

Keterangan :

F0 : Formula tanpa konsentrasi ekstrak daun kelor

F1 : Formula dengan konsentrasi ekstrak daun kelor 2,5%

F2 : Formula dengan konsentrasi ekstrak daun kelor 5%

F3 : Formula dengan konsentrasi ekstrak daun kelor 7,5%

Lampiran 13. Hasil SPSS uji viskositas

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Viskositas hari ke-1	12	100.0%	0	0.0%	12	100.0%
Viskositas hari ke-21	12	100.0%	0	0.0%	12	100.0%

Descriptives

		Statistic	Std. Error	
Viskositas hari ke-1	Mean	138.33	3.658	
	95% Confidence Interval for Mean	Lower Bound	130.28	
		Upper Bound	146.39	
	5% Trimmed Mean	138.15		
	Median	140.00		
	Variance	160.606		
	Std. Deviation	12.673		
	Minimum	120		
	Maximum	160		
	Range	40		
	Interquartile Range	20		
	Skewness	.048	.637	
	Kurtosis	-.879	1.232	
	Viskositas hari ke-21	Mean	135.83	3.786
95% Confidence Interval for Mean		Lower Bound	127.50	
		Upper Bound	144.17	
5% Trimmed Mean		135.37		
Median		135.00		
Variance		171.970		
Std. Deviation		13.114		
Minimum		120		
Maximum		160		
Range		40		
Interquartile Range		25		
Skewness		.363	.637	
Kurtosis		-.759	1.232	

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	Df	Sig.
Viskositas hari ke-1	.161	12	.200*	.936	12	.449
Viskositas hari ke-21	.172	12	.200*	.920	12	.290

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

a. Lilliefors Significance Correction

Oneway

Descriptives

Viskositas hari ke-1

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F0	3	153.33	5.774	3.333	138.99	167.68	150	160
F1	3	143.33	5.774	3.333	128.99	157.68	140	150
F2	3	133.33	5.774	3.333	118.99	147.68	130	140
F3	3	123.33	5.774	3.333	108.99	137.68	120	130
Total	12	138.33	12.673	3.658	130.28	146.39	120	160

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas hari ke-1	Based on Mean	.000	3	8	1.000
	Based on Median	.000	3	8	1.000
	Based on Median and with adjusted df	.000	3	8.000	1.000
	Based on trimmed mean	.000	3	8	1.000

ANOVA

Viskositas hari ke-1

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1500.000	3	500.000	15.000	.001
Within Groups	266.667	8	33.333		
Total	1766.667	11			

Homogeneous Subsets

Viskositas hari ke-1

Tukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
F3	3	123.33		
F2	3	133.33	133.33	
F1	3		143.33	143.33
F0	3			153.33
Sig.		.225	.225	.225

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Descriptives

Viskositas hari ke-21

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F0	3	150.00	10.000	5.774	125.16	174.84	140	160
F1	3	140.00	10.000	5.774	115.16	164.84	130	150
F2	3	130.00	10.000	5.774	105.16	154.84	120	140
F3	3	123.33	5.774	3.333	108.99	137.68	120	130
Total	12	135.83	13.114	3.786	127.50	144.17	120	160

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas hari ke-21	Based on Mean	.143	3	8	.931
	Based on Median	.250	3	8	.859
	Based on Median and with adjusted df	.250	3	8.000	.859
	Based on trimmed mean	.150	3	8	.927

ANOVA

Viskositas hari ke-21

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1225.000	3	408.333	4.900	.032
Within Groups	666.667	8	83.333		
Total	1891.667	11			

Homogeneous Subsets

Viskositas hari ke-21

Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
F3	3	123.33	
F2	3	130.00	130.00
F1	3	140.00	140.00
F0	3		150.00
Sig.		.193	.104

Means for groups in homogeneous subsets are displayed.

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

Viskositas hari ke-1 dan hari ke-21

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Viskositas hari ke-1	139.17	12	11.645	3.362
	Viskositas hari ke-21	134.17	12	13.114	3.786

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Viskositas hari ke-1 & Viskositas hari ke-21	12	.739	.006

Paired Samples Test

Paired Differences

		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	Viskositas hari ke-1 - Viskositas hari ke-21	5.000	9.045	2.611	-.747	10.747	1.915	11	.082

Lampiran 14. Hasil uji pH gel *facial wash* ekstrak etanol daun kelor

Waktu	Formula	Uji pH			Rata-rata	SD
		R1	R2	R3		
Hari ke-1	0	5.97	5.95	5.94	5.95	0.01
	1	5.75	5.78	5.77	5.77	0.02
	2	5.58	5.59	5.55	5.57	0.02
	3	5.49	5.47	5.45	5.47	0.02
Hari ke-21	0	5.97	5.94	5.92	5.94	0.01
	1	5.74	5.77	5.78	5.76	0.02
	2	5.57	5.56	5.54	5.56	0.01
	3	5.47	5.45	5.44	5.45	0.01

Keterangan :

F0 : Formula tanpa konsentrasi ekstrak daun kelor

F1 : Formula dengan konsentrasi ekstrak daun kelor 2,5%

F2 : Formula dengan konsentrasi ekstrak daun kelor 5%

F3 : Formula dengan konsentrasi ekstrak daun kelor 7,5%

Lampiran 15. Hasil SPSS uji pH

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
pH hari ke-1	12	80.0%	3	20.0%	15	100.0%
pH hari ke-21	12	80.0%	3	20.0%	15	100.0%

Descriptives

		Statistic	Std. Error	
pH hari ke-1	Mean	5.8158	.03213	
	95% Confidence Interval for Mean	Lower Bound	5.7451	
		Upper Bound	5.8866	
	5% Trimmed Mean	5.8165		
	Median	5.8200		
	Variance	.012		
	Std. Deviation	.11131		
	Minimum	5.65		
	Maximum	5.97		
	Range	.32		
	Interquartile Range	.22		
	Skewness	-.122	.637	
	Kurtosis	-1.330	1.232	
pH hari ke-21	Mean	5.8083	.03350	
	95% Confidence Interval for Mean	Lower Bound	5.7346	
		Upper Bound	5.8821	
	5% Trimmed Mean	5.8081		
	Median	5.8050		
	Variance	.013		
	Std. Deviation	.11606		
	Minimum	5.65		
	Maximum	5.97		
	Range	.32		
	Interquartile Range	.24		
	Skewness	-.027	.637	
	Kurtosis	-1.483	1.232	

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH hari ke-1	.121	12	.200*	.939	12	.484
pH hari ke-21	.133	12	.200*	.921	12	.298

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

a. Lilliefors Significance Correction

Oneway

Descriptives

pH hari ke-1

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F0	3	5.9533	.01528	.00882	5.9154	5.9913	5.94	5.97
F1	3	5.8667	.01528	.00882	5.8287	5.9046	5.85	5.88
F2	3	5.7733	.02082	.01202	5.7216	5.8250	5.75	5.79
F3	3	5.6700	.02000	.01155	5.6203	5.7197	5.65	5.69
Total	12	5.8158	.11131	.03213	5.7451	5.8866	5.65	5.97

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH hari ke-1	Based on Mean	.181	3	8	.906
	Based on Median	.078	3	8	.970
	Based on Median and with adjusted df	.078	3	6.964	.970
	Based on trimmed mean	.172	3	8	.913

ANOVA

pH hari ke-1

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.134	3	.045	137.120	.000
Within Groups	.003	8	.000		
Total	.136	11			

Homogeneous Subsets

pH hari ke-1

Tukey HSD^a

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
F3	3	5.6700			
F2	3		5.7733		
F1	3			5.8667	
F0	3				5.9533
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.

Descriptives

pH hari ke-21

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F0	3	5.9533	.01528	.00882	5.9154	5.9913	5.94	5.97
F1	3	5.8633	.02082	.01202	5.8116	5.9150	5.84	5.88
F2	3	5.7567	.01528	.00882	5.7187	5.7946	5.74	5.77
F3	3	5.6600	.01000	.00577	5.6352	5.6848	5.65	5.67
Total	12	5.8083	.11606	.03350	5.7346	5.8821	5.65	5.97

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH hari ke-21	Based on Mean	.790	3	8	.533
	Based on Median	.190	3	8	.900
	Based on Median and with adjusted df	.190	3	5.765	.899
	Based on trimmed mean	.731	3	8	.562

ANOVA

pH hari ke-21

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.146	3	.049	194.889	.000
Within Groups	.002	8	.000		
Total	.148	11			

Homogeneous Subsets

pH hari ke-21

Tukey HSD^a

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
F3	3	5.6600			
F2	3		5.7567		
F1	3			5.8633	
F0	3				5.9533
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.

pH hari ke-1 dan hari ke-21

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	pH hari ke-1	5.8158	12	.11131	.03213
	pH hari ke-21	5.8083	12	.11606	.03350

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	pH hari ke-1 & pH hari ke-21	12	.995	.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 hari ke-1 - pH hari ke-21	.00750	.01215	.00351	-.00022	.01522	2.138	11	.056

Lampiran 16. Hasil uji daya busa gel *facial wash* ekstrak etanol daun kelor

Waktu	Formula	Uji daya busa (cm)			Rata-rata	SD	Waktu	Formula	Uji daya busa (cm)			Rata-rata	SD	Stabilitas busa (%)
		R1	R2	R3					R1	R2	R3			
Awal							Akhir							
	0	7,0	6,5	6,3	6,63	0,35		0	5,7	5,9	5,5	5,70	0,20	85,97%
	1	6,5	6,9	6,7	6,43	0,25		1	4,6	4,8	4,5	4,63	0,15	70,45%
	2	6	6,4	6,2	6,13	0,15		2	4,2	3,9	4	4,03	0,15	65,74%
	3	5,5	5,1	5	5,60	0,20		3	3,2	3,4	3,6	3,40	0,25	60,71%

Keterangan :

F0 : Formula tanpa konsentrasi ekstrak daun kelor

F1 : Formula dengan konsentrasi ekstrak daun kelor 2,5%

F2 : Formula dengan konsentrasi ekstrak daun kelor 5%

F3 : Formula dengan konsentrasi ekstrak daun kelor 7,5%

Lampiran 17. Hasil pengujian stabilitas

Lampiran 18. Hasil uji stabilitas *Freeze thaw* gel facial wash ekstrak daun kelor

Waktu	Formula	Viskositas			Rata-rata	SD
		R1	R2	R3		
Sebelum	0	160	150	150	153.33	5.77
	1	140	150	140	143.33	5.77
	2	130	140	130	133.33	5.77
	3	120	130	130	126.67	5.77
Sesudah	0	140	150	150	146.67	5.77
	1	140	130	130	133.33	5.77
	2	120	130	120	123,33	5.77
	3	110	130	120	120	10.00

Keterangan :

F0 : Formula tanpa konsentrasi ekstrak daun kelor

F1 : Formula dengan konsentrasi ekstrak daun kelor 2,5%

F2 : Formula dengan konsentrasi ekstrak daun kelor 5%

F3 : Formula dengan konsentrasi ekstrak daun kelor 7,5%

Waktu	Formula	Uji pH			Rata-rata	SD
		R1	R2	R3		
Sebelum	0	5.97	5.95	5.94	5.95	0.01
	1	5.75	5.78	5.77	5.77	0.02
	2	5.58	5.59	5.55	5.57	0.02
	3	5.49	5.47	5.45	5.47	0.02
Sesudah	0	5.95	5.92	5.93	5.93	0.01
	1	5.75	5.76	5.73	5.75	0.02
	2	5.57	5.56	5.53	5.55	0.03
	3	5.46	5.44	5.43	5.44	0.03

Keterangan :

F0 : Formula tanpa konsentrasi ekstrak daun kelor

F1 : Formula dengan konsentrasi ekstrak daun kelor 2,5%

F2 : Formula dengan konsentrasi ekstrak daun kelor 5%

F3 : Formula dengan konsentrasi ekstrak daun kelor 7,5%

Lampiran 19. Hasil SPSS uji viskositas setelah stabilitas

Viskositas setelah uji stabilitas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
Sesudah	.179	12	.200*	.960	12	.790
Sebelum	.201	12	.195	.935	12	.433

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

a. Lilliefors Significance Correction

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Sebelum	139.17	12	11.645	3.362
	Sesudah	133.33	12	13.707	3.957

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Sebelum & Sesudah	12	.645	.023

Paired Samples Test

		Paired Differences						t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference					
			n		Lower	Upper				
Pair 1	Sebelum – Sesudah	5.833	10.836	3.128	-1.052	12.718	1.865	11	.089	

**Lampiran 20. Hasil SPSS uji pH setelah stabilitas
pH setelah uji stabilitas**

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
Sebelum	.121	12	.200*	.939	12	.484
Sesudah	.120	12	.200*	.941	12	.511

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

a. Lilliefors Significance Correction

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Sebelum	5.8158	12	.11131	.03213
	Sesudah	5.8033	12	.12138	.03504

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Sebelum & Sesudah	12	.986	.000

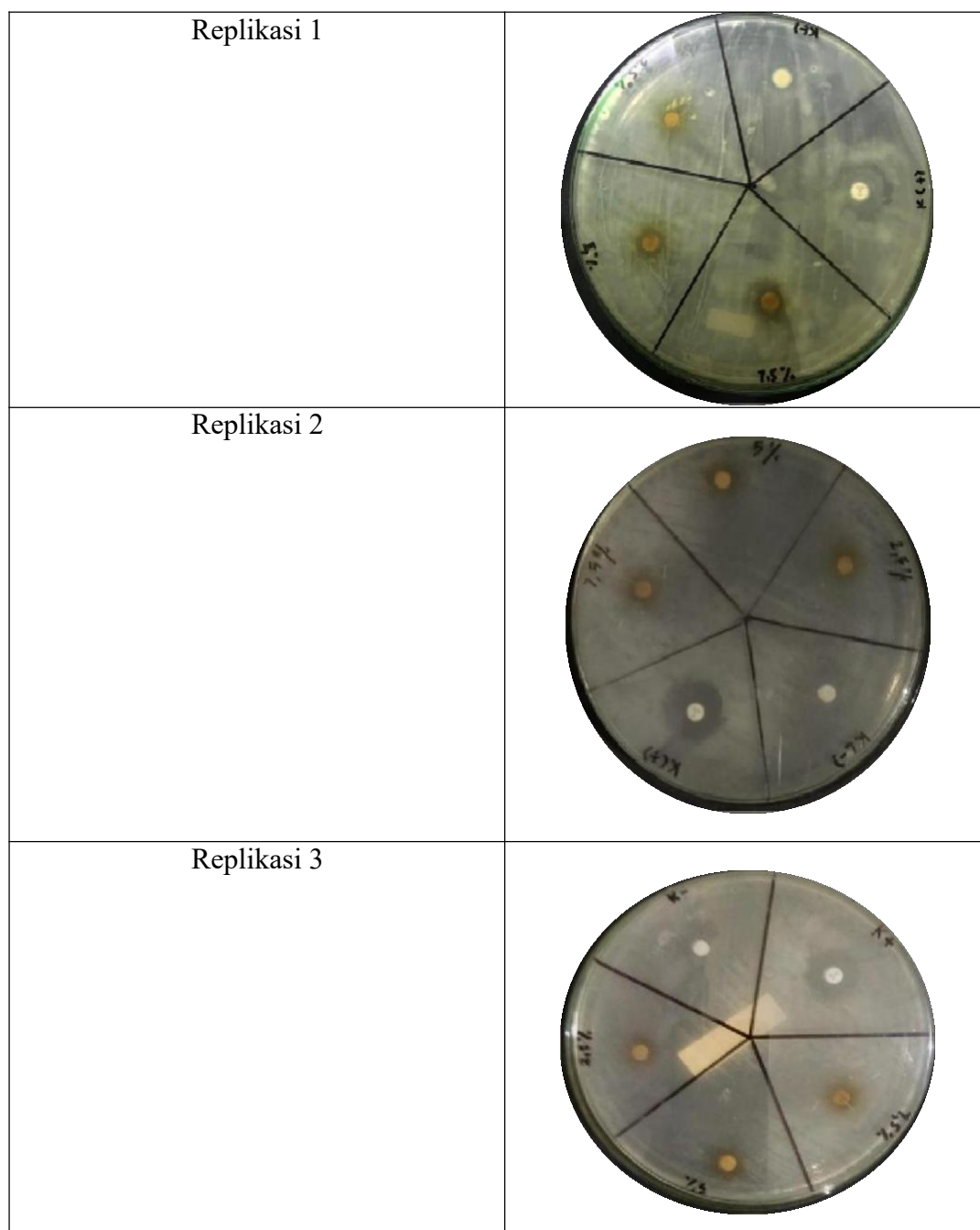
Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	Sebelum – Sesudah	.0125 0	.02179	.00629	-.00135	.02635	1.987	11	.072

Lampiran 21. Hasil uji daya hambat ekstrak daun kelor

Konsentrasi	Daya Hambat (mm)			Rata-rata	SD
	R1	R2	R3		
K (-)	-	-	-	-	-
K (+)	21.2	21.7	21.5	22.47	0.25
2.5%	11	11.7	11.5	11.40	0.36
5%	12.5	12.3	12.6	12.47	0.15
7.5%	14.2	14	14.5	14.23	0.25

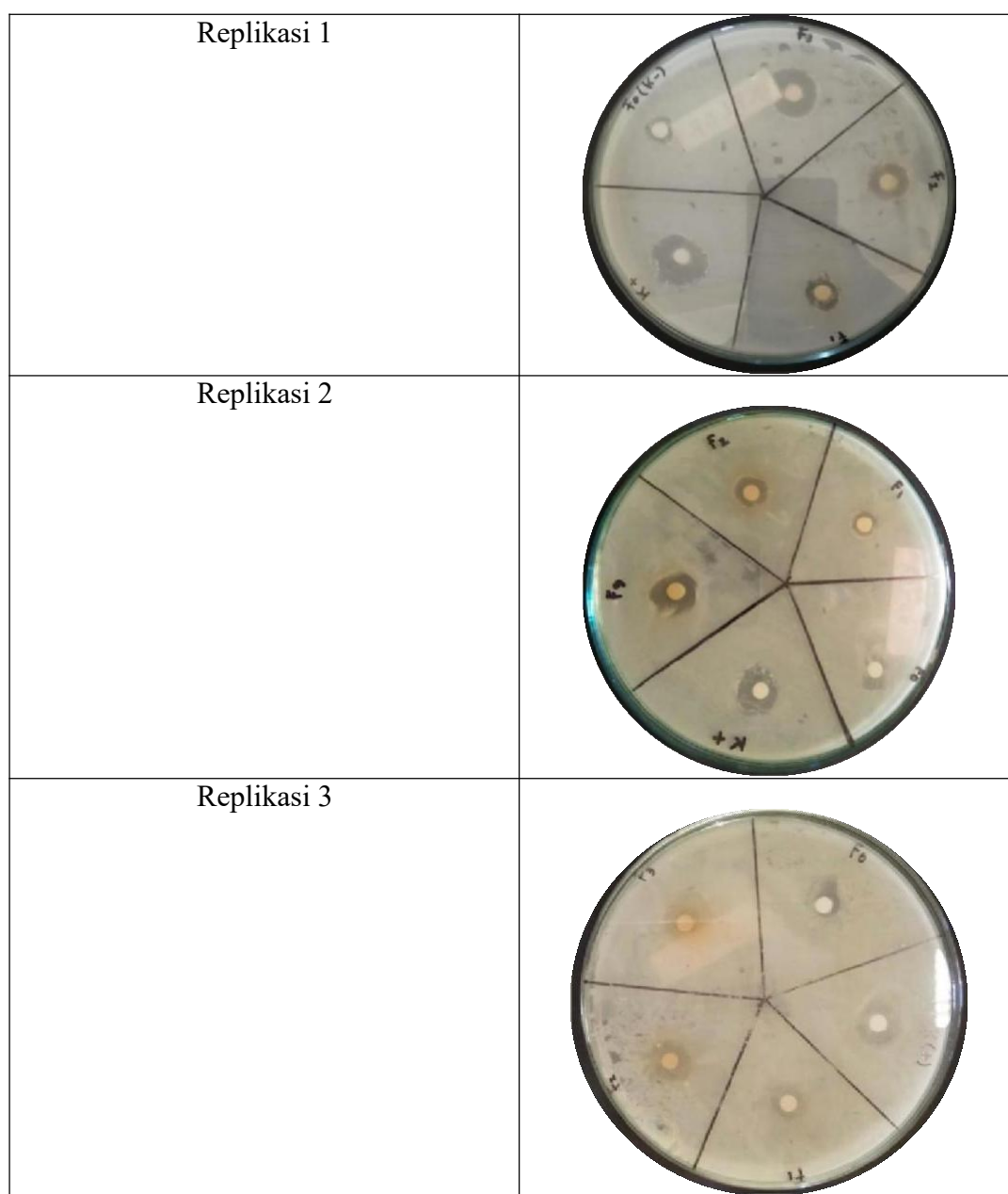
Gambar hasil :



Lampiran 22. Hasil uji daya hambat antibakteri

Konsentrasi	Daya Hambat (mm)			Rata-rata	SD
	R1	R2	R3		
K (+)	22.7	22.8	22.5	22.67	0.15
F0	10.4	10.2	10.7	10.43	0.25
F1	13,2	13.5	13.7	13.60	0.14
F2	15.6	15.3	15.8	15.57	0.25
F3	18.7	18.2	18.6	18.50	0.26

Gambar hasil :



Lampiran 23. Hasil SPSS daya hambat bakteri sediaan gel *facial wash* ekstrak daun kelor

Daya Hambat Antibakteri Sediaan Gel *Facial Wash*

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Daya Hambat	15	100.0%	0	0.0%	15	100.0%

Descriptives

		Statistic	Std. Error	
Daya Hambat	Mean	16.127	1.1237	
	95% Confidence Interval for Mean	Lower Bound	13.716	
		Upper Bound	18.537	
	5% Trimmed Mean	16.085		
	Median	15.600		
	Variance	18.942		
	Std. Deviation	4.3523		
	Minimum	10.2		
	Maximum	22.8		
	Range	12.6		
	Interquartile Range	5.5		
	Skewness	.267	.580	
	Kurtosis	-1.033	1.121	

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
Daya Hambat	.130	15	.200*	.922	15	.209

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

a. Lilliefors Significance Correction

Oneway

Descriptives

Daya Hambat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
K (+)	3	22.667	.1528	.0882	22.287	23.046	22.5	22.8
F0	3	10.433	.2517	.1453	9.808	11.058	10.2	10.7
F1	3	13.467	.2517	.1453	12.842	14.092	13.2	13.7
F2	3	15.567	.2517	.1453	14.942	16.192	15.3	15.8
F3	3	18.500	.2646	.1528	17.843	19.157	18.2	18.7
Total	15	16.127	4.3523	1.1237	13.716	18.537	10.2	22.8

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya Hambat	Based on Mean	.272	4	10	.889
	Based on Median	.108	4	10	.977
	Based on Median and with adjusted df	.108	4	8.425	.976
	Based on trimmed mean	.258	4	10	.898

ANOVA

Daya Hambat

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	264.623	4	66.156	1167.453	.000
Within Groups	.567	10	.057		
Total	265.189	14			

Homogeneous Subsets

Daya Hambat

Tukey HSD^a

Formula	N	Subset for alpha = 0.05				
		1	2	3	4	5
F0	3	10.433				
F1	3		13.467			
F2	3			15.567		
F3	3				18.500	
K (+)	3					22.667
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.