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Lampiran 1.   Hasil determinasi herba seledri (Apium graveolens L.)

UNIVERSITAS SETIA BUDI

UPT-LABORATORIUM

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Nomor   : 84/DET/UPT-LAB/26.09.2020

Hal   : Hasil determinasi tumbuhan

Lamp.   : -

Nama Pemesan   : Devi Nopita Sari
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Nama sampel   : Seledri/*Apium graveolens* L.

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom   : Plantae

Super Divisi   : Spermatophyta

Divisi   : Magnoliophyta

Kelas   : Magnoliopsida

Ordo   : Apiales

Famili   : Apiaceae

Genus   : Apium

Species   : *Apium graveolens* L

Hasil Determinasi menurut C.A. Backer & R.C. Bakhuizen van den Brink Jr. (1963) :

1b – 2b – 3b – 4b – 12b – 13b – 14b – 17b – 18b – 19b – 20b – 21b – 22b – 23b – 24b – 25b – 26b – 27a – 28b – 29b – 30b – 31a – 32a – 33c – 631a. familia 148. Apiaceae. 1b – 18b – 19b – 20a – 21a. 10. Apium. *Apium graveolens* L.

Deskripsi:

Habitus : Semak, anual atau bienial.

Akar : Akar tunggang.

Batang : Batang tidak berkayu, beralur, bersegi, beralur, beruas, bercabang banyak. Berbau spesifik.

Daun : Daun majemuk menyirip ganjil, anak daun 3 – 7 helai, panjang tangkai anak daun 2 – 7,5 cm, helaian daun tipis dan rapuh, pangkal dan ujung runcing, tepi beringgit, panjang 2 – 7,1 cm, lebar 2,1 – 4,9 cm, hijau, beraroma spesifik.

Bunga : Bunga majemuk, bentuk payung, terdiri 6 – 25 bunga, terminal, panjang 2 cm, petala putih kehijauan atau putih kekuningan, panjang 0,5 – 0,75 mm.

Buah : Buah kotak, berbentuk kerucut, panjang 1 – 1,5 cm, hijau kekuningan.

Surakarta, 26 September 2020

Kepala UPT-LAB
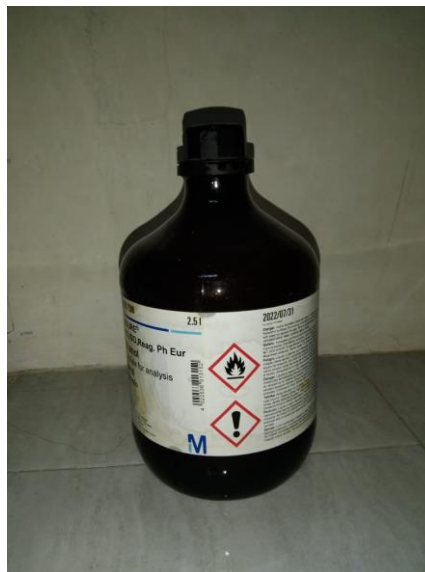Universitas Setia Budi

Penanggung jawab
Determinasi Tumbuhan

Asik Gunawan, Amdk

Dra. Dewi Sulistyawati. M.Sc.

Lampiran 2. Alat-alat penelitian

Timbangan analitik

Botol maserasi

Rotary evaporator

Oven

Lampiran 3. Tanaman herba seledri

Herba seledri

Serbuk herba seledri

Ekstrak herba seledri

Lampiran 4. Perhitungan rendemen simplisia dan serbuk herba seledri

Perhitungan rendemen simplisia kering herba seledri

Sampel	Bobot basah (g)	Bobot kering (g)	Rendemen (%)
Herba seledri	12.000	3.000	25

Rendemen simplisia kering herba seledri $= \frac{Bobot\ kering}{Bobot\ basah} \ x\ 100\%$

$$= \frac{3.000}{12.000}\ x\ 100\% = 25\%$$

Perhitungan rendemen serbuk terhadap berat kering herba seledri

Sampel	Bobot kering (g)	Bobot serbuk (g)	Rendemen (%)
Herba seledri	3.000	2.600	86,67

Rendemen serbuk terhadap berat kering $= \frac{Bobot\ serbuk}{Bobot\ kering}\ x\ 100\%$

$$= \frac{2.600}{3.000}\ x\ 100\% = 86,67\%$$

Lampiran 5. Perhitungan kadar air serbuk herba seledri

Replikasi	Berat serbuk (g)	Volume air (ml)	Kadar air (%)
1	20	1,1	5,5
2	20	1,0	5,0
3	20	1,0	5,0
Rata-rata		1,067	5,17

Kadar air serbuk $= \dfrac{Volume\ air\ (ml)}{Berat\ serbuk\ (g)}\ x\ 100\%$

1. Kadar air serbuk $= \dfrac{1,1\ ml}{20\ g}\ x\ 100\% = 5,5\%$

2. Kadar air serbuk $= \dfrac{1,0\ ml}{20\ g}\ x\ 100\% = 5,0\%$

3. Kadar air serbuk $= \dfrac{1,0\ ml}{20\ g}\ x\ 100\% = 5,0\%$

Rata-rata kadar air $= \dfrac{5,5\% + 5,0\% + 5,0\%}{3} = 5,17\%$

Lampiran 6. Perhitungan rendemen dan kadar air ekstrak herba seledri

Perhitungan rendemen ekstrak herba seledri

Sampel	Bobot serbuk (g)	Bobot ekstrak (g)	Rendemen (%)
Herba seledri	1.500	545	36,33%

$$\text{Rendemen ekstrak} = \frac{Bobot\ ekstrak\ (g)}{Bobot\ serbuk\ (g)} \ x\ 100\%$$

$$= \frac{545\ g}{1.500\ g} \ x\ 100\% = 36,33\%$$

Perhitungan kadar air ekstrak herba seledri

Replikasi	Bobot ekstrak awal (g)	Bobot ekstrak akhir (g)	Kadar air (%)
1	10,672	9,812	8,06
2	10,183	9,302	8,65
3	10,427	9,596	7,97
Rata-rata			8,23

Kadar air

$$\frac{Bobot\ sebelum\ pengeringan - bobot\ setelah\ pengeringan\ (g)}{Bobot\ sebelum\ pengeringan\ (g)} \ x\ 100\%$$

1. Kadar air $= \frac{10,672\ g - 9,812\ g}{10,672\ g} \ x\ 100\% = 8,06\%$

2. Kadar air $= \frac{10,183\ g - 9,302\ g}{10,183\ g} \ x\ 100\% = 8,65\%$

3. Kadar air $= \frac{10,427\ g - 9,596\ g}{10,427\ g} \ x\ 100\% = 7,97\%$
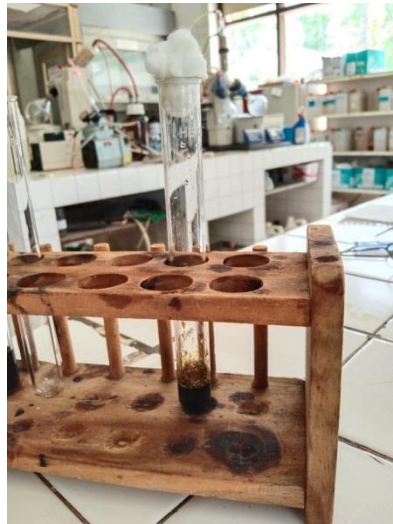
Rata-rata kadar air $= \frac{8,06\% + 8,65\% + 7,97\%}{3} = 8,23\%$

Lampiran 7. **Hasil uji bebas etanol dan identifikasi kandungan kimia ekstrak herba seledri**

Hasil uji bebas etanol

Ekstrak etanol herba seledri + CH3COOH + H2SO4 kemudian dipanaskan

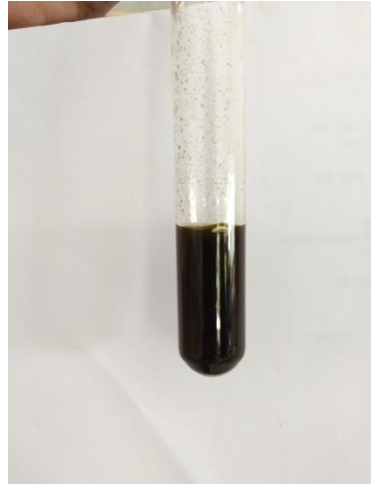Hasil = Positif tidak tercium bau ester

Hasil identifikasi kandungan kimia ekstrak herba seledri

Uji flavonoid = Tebentuk warna jingga pada lapisan amil alkohol
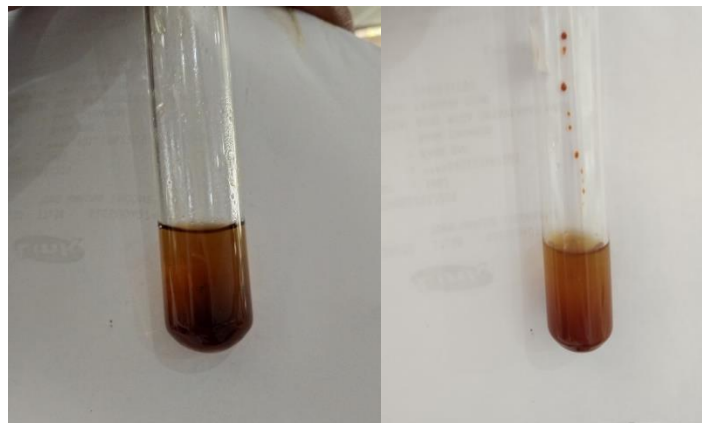
Tanin = Terbentuk warna hijau kehitaman

Saponin = Terbentuk buih yang stabil

Alkaloid = Terbentuk endapan coklat kehitaman dengan *Baochardat* LP dan Terbentuk endapan jingga kecoklatan dengan *Dragendro*ff LP.

Lampiran 8. Hasil sediaan sabun cair ekstrak herba seledri

Keterangan :

K(-) (basis)   = Formula sabun cair ekstrak herba seledri konsentrasi 0%

F2   = Formula sabun cair ekstrak herba seledri konsentrasi 2%

F3   = Formula sabun cair ekstrak herba seledri konsentrasi 4%

F4   = Formula sabun cair ekstrak herba seledri konsentrasi 8%

Kontrol positif

Lampiran 9. Hasil uji stabilitas sediaan sabun cair ekstrak herba seledri
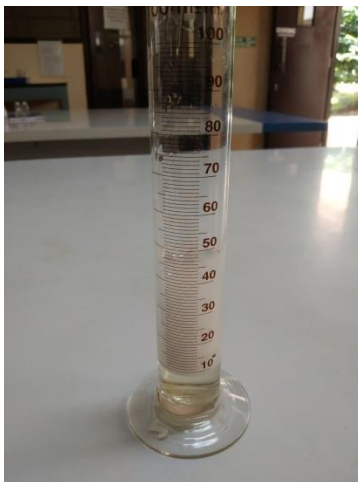
Lampiran 10. Uji mutu fisik sabun cair ekstrak herba seledri
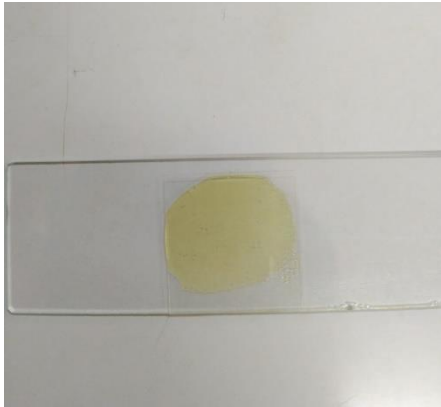
Uji homogenitas

Uji pH

Uji tinggi busa

Uji berat jenis

Uji viskositas

Lampiran 11. Hasil uji hedonik

Format Formulir Uji Kesukaan (Tes Hedonik)

Tes Hedonik

Pilihlah sabun cair yang anda sangat suka sampai tidak suka berdasarkan kriteria tekstur, warna, dan aroma dari sabun cair.

No	Nama	Umur	Formula		
			1	2	3
1	Mellinia	20	4	4	4
2	Rega	22	3	3	2
3	Bahana	20	4	4	3
4	Adelia	22	4	4	3
5	Riesty	21	4	3	3
6	Anita	23	4	3	4
7	Dwi astari	21	4	4	4
8	Rissa	20	3	3	3
9	Ita novita	21	4	4	3
10	Puspita	21	4	4	4
11	Melinda Ayu	21	4	3	3
12	Melinda	21	3	3	4
13	Versi	20	3	4	3
14	Linda	20	4	4	3
15	Monika	21	4	3	3

Keterangan

Sangat suka   : 4

Suka   : 3

Kurang suka   : 2

Tidak suka   : 1

Formula 1   : sediaan sabun cair ekstrak herba seledri konsentrasi 2%

Formula 2   : sediaan sabun cair ekstrak herba seledri konsentrasi 4%

Formula 3   : sediaan sabun cair ekstrak herba seledri konsentrasi 8%

Lampiran 12. Hasil peremajaan dan suspensi bakteri *Stapyhlococcus aureus*
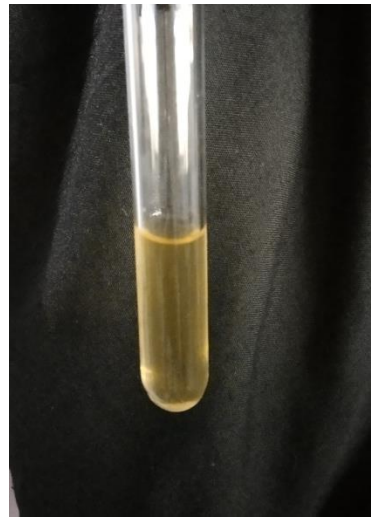
| Peremajaan | suspensi |
| bakteri *Stapyhlococcus aureus* | bakteri *Stapyhlococcus aureus* |

Lampiran 13. Hasil identifikasi bakteri *Stapyhlococcus aureus*

Uji isolasi

Uji pewarnaan gram

Uji katalase

Uji koagulase

Lampiran 14. Hasil uji aktivitas antibakteri sabun cair ekstrak herba seledri

Replikasi 1

Replikasi 2

Replikasi 3

Lampiran 15. Data hasil analisis statistik uji tinggi busa sabun cair ekstrak herba seledri

Hasil uji tinggi busa sabun cair ekstrak herba seledri

Formula	Replikasi	Tinggi busa (cm)		
		Tinggi busa	Rata-rata	SD
K(-)	1	5,9	6,07	0,15
	2	6,1		
	3	6,2		
F1	1	6,5	6,53	0.15
	2	6,7		
	3	6,4		
F2	1	7	6,97	0.15
	2	7,1		
	3	6,8		
F3	1	7,6	7,43	0.15
	2	7,4		
	3	7,3		

Keterangan:

K(-) =   Formula sabun cair ekstrak herba seledri konsentrasi 0%

F1   =   Formula sabun cair ekstrak herba seledri konsentrasi 2%

F2   =   Formula sabun cair ekstrak herba seledri konsentrasi 4%

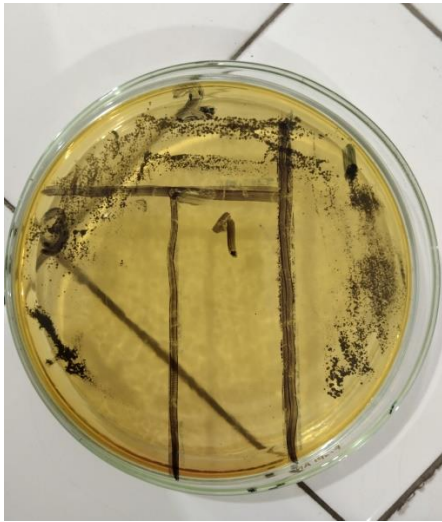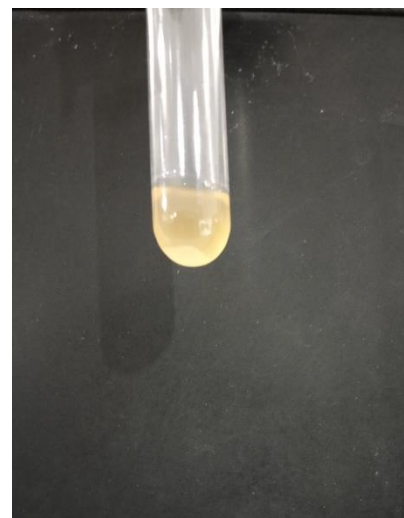F3   =   Formula sabun cair ekstrak herba seledri konsentrasi 8%

Tests of Normality

	kelompok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
tinggi_busa	negatif	,253	3	.	,964	3	,637
	2%	,253	3	.	,964	3	,637
	4%	,253	3	.	,964	3	,637
	8%	,253	3	.	,964	3	,637

a. Lilliefors Significance Correction

Descriptives

tinggi_busa

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
negatif	3	6,0667	,15275	,08819	5,6872	6,4461	5,90	6,20
2%	3	6,5333	,15275	,08819	6,1539	6,9128	6,40	6,70
4%	3	6,9667	,15275	,08819	6,5872	7,3461	6,80	7,10
8%	3	7,4333	,15275	,08819	7,0539	7,8128	7,30	7,60
Total	12	6,7500	,54523	,15739	6,4036	7,0964	5,90	7,60

Test of Homogeneity of Variances

tinggi_busa

Levene Statistic	df1	df2	Sig.
,000	3	8	1,000

ANOVA

tinggi_busa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3,083	3	1,028	44,048	,000
Within Groups	,187	8	,023		
Total	3,270	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: tinggi_busa

Tukey HSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	Upper Bound
negatif	2%	-,46667*	,12472	,024	-,8661	-,0673
	4%	-,90000*	,12472	,000	-1,2994	-,5006
	8%	-1,36667*	,12472	,000	-1,7661	-,9673
2%	negatif	,46667*	,12472	,024	,0673	,8661
	4%	-,43333*	,12472	,034	-,8327	-,0339
	8%	-,90000*	,12472	,000	-1,2994	-,5006
4%	negatif	,90000*	,12472	,000	,5006	1,2994
	2%	,43333*	,12472	,034	,0339	,8327
	8%	-,46667*	,12472	,024	-,8661	-,0673
8%	negatif	1,36667*	,12472	,000	,9673	1,7661
	2%	,90000*	,12472	,000	,5006	1,2994
	4%	,46667*	,12472	,024	,0673	,8661

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

Homogeneous Subsets

tinggi_busa

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05 1	2	3	4
negatif	3	6,0667			
2%	3		6,5333		
4%	3			6,9667	
8%	3				7,4333
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.

Lampiran 16. Data hasil analisis statistik uji berat jenis sabun cair ekstrak herba seledri

Rumus berat jenis :

$$\frac{(berat\ piknometer+sediaan)-piknometer\ kosong}{(berat\ piknometer+akuades)-piknometer\ kosong}$$

Hasil uji berat jenis sabun cair ekstrak herba seledri

Formula	Replikasi	Berat jenis (g/ml)		
		Berat jenis	Rata-rata	SD
K(-)	1	1,022	1,022	0,001
	2	1,023		
	3	1,021		
F1	1	1,030	1,031	0.002
	2	1,033		
	3	1,031		
F2	1	1,039	1,037	0.003
	2	1,034		
	3	1,037		
F3	1	1,042	1,044	0.003
	2	1,047		
	3	1,044		

Keterangan:

K(-) = Formula sabun cair ekstrak herba seledri konsentrasi 0%

F1 = Formula sabun cair ekstrak herba seledri konsentrasi 2%

F2 = Formula sabun cair ekstrak herba seledri konsentrasi 4%

F3 = Formula sabun cair ekstrak herba seledri konsentrasi 8%

Tests of Normality

	kelompok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
berat_jenis	negatif	,175	3	.	1,000	3	1,000
	2%	,253	3	.	,964	3	,637
	4%	,219	3	.	,987	3	,780
	8%	,219	3	.	,987	3	,780

a. Lilliefors Significance Correction

Descriptives

berat_jenis

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
negatif	3	1,02200	,001000	,000577	1,01952	1,02448	1,021	1,023
2%	3	1,03133	,001528	,000882	1,02754	1,03513	1,030	1,033
4%	3	1,03667	,002517	,001453	1,03042	1,04292	1,034	1,039
8%	3	1,04433	,002517	,001453	1,03808	1,05058	1,042	1,047
Total	12	1,03358	,008660	,002500	1,02808	1,03909	1,021	1,047

Test of Homogeneity of Variances

berat_jenis

Levene Statistic	df1	df2	Sig.
,889	3	8	,487

ANOVA

berat_jenis

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,001	3	,000	66,076	,000
Within Groups	,000	8	,000		
Total	,001	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: berat_jenis

Tukey HSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
negatif	2%	-,009333[*]	,001633	,002	-,01456	-,00410
	4%	-,014667[*]	,001633	,000	-,01990	-,00944
	8%	-,022333[*]	,001633	,000	-,02756	-,01710
2%	negatif	,009333[*]	,001633	,002	,00410	,01456
	4%	-,005333[*]	,001633	,046	-,01056	-,00010
	8%	-,013000[*]	,001633	,000	-,01823	-,00777
4%	negatif	,014667[*]	,001633	,000	,00944	,01990
	2%	,005333[*]	,001633	,046	,00010	,01056
	8%	-,007667[*]	,001633	,007	-,01290	-,00244
8%	negatif	,022333[*]	,001633	,000	,01710	,02756
	2%	,013000[*]	,001633	,000	,00777	,01823
	4%	,007667[*]	,001633	,007	,00244	,01290

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

Homogeneous Subsets

berat_jenis

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05 1	Subset for alpha = 0.05 2	Subset for alpha = 0.05 3	Subset for alpha = 0.05 4
negatif	3	1,02200			
2%	3		1,03133		
4%	3			1,03667	
8%	3				1,04433
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.

Lampiran 17. Data hasil analisis statistik viskositas sabun cair ekstrak herba seledri

Hasil uji viskositas sabun cair ekstrak herba seledri

Formula	Replikasi	viskositas (dpa.S)		
		viskositas	Rata-rata	SD
K(-)	1	9	8,50	1,50
	2	8		
	3	8,5		
F1	1	13	12,0	1,00
	2	11		
	3	12		
F2	1	16	15,0	1,00
	2	15		
	3	14		
F3	1	19	19,33	1,53
	2	18		
	3	21		

Keterangan:

K(-) = Formula sabun cair ekstrak herba seledri konsentrasi 0%

F1 = Formula sabun cair ekstrak herba seledri konsentrasi 2%

F2 = Formula sabun cair ekstrak herba seledri konsentrasi 4%

F3 = Formula sabun cair ekstrak herba seledri konsentrasi 8%

Tests of Normality

	kelompok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
viskositas	negatif	,175	3	.	1,000	3	1,000
	2%	,175	3	.	1,000	3	1,000
	4%	,175	3	.	1,000	3	1,000
	8%	,253	3	.	,964	3	,637

a. Lilliefors Significance Correction

Descriptives

viskositas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
negatif	3	8,5000	,50000	,28868	7,2579	9,7421	8,00	9,00
2%	3	12,0000	1,00000	,57735	9,5159	14,4841	11,00	13,00
4%	3	15,0000	1,00000	,57735	12,5159	17,4841	14,00	16,00
8%	3	19,3333	1,52753	,88192	15,5388	23,1279	18,00	21,00
Total	12	13,7083	4,25579	1,22854	11,0043	16,4123	8,00	21,00

Test of Homogeneity of Variances

viskositas

Levene Statistic	df1	df2	Sig.
,992	3	8	,444

ANOVA

viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	190,062	3	63,354	55,291	,000
Within Groups	9,167	8	1,146		
Total	199,229	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: viskositas

Tukey HSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
negatif	2%	-3,50000*	,87401	,017	-6,2989	-,7011
	4%	-6,50000*	,87401	,000	-9,2989	-3,7011
	8%	-10,83333*	,87401	,000	-13,6322	-8,0345
2%	negatif	3,50000*	,87401	,017	,7011	6,2989
	4%	-3,00000*	,87401	,036	-5,7989	-,2011
	8%	-7,33333*	,87401	,000	-10,1322	-4,5345
4%	negatif	6,50000*	,87401	,000	3,7011	9,2989
	2%	3,00000*	,87401	,036	,2011	5,7989
	8%	-4,33333*	,87401	,005	-7,1322	-1,5345
8%	negatif	10,83333*	,87401	,000	8,0345	13,6322
	2%	7,33333*	,87401	,000	4,5345	10,1322
	4%	4,33333*	,87401	,005	1,5345	7,1322

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

Homogeneous Subsets

viskositas

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05			
		1	2	3	4
negatif	3	8,5000			
2%	3		12,0000		
4%	3			15,0000	
8%	3				19,3333
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.

Lampiran 18. Data hasil analisis statistik uji stabilitas tinggi busa sabun cair ekstrak herba seledri

Hasil uji tinggi busa sabun cair ekstrak herba seledri

Formula	Replikasi	Tinggi busa (cm)					
		Sebelum freeze thaw	Rata-rata	SD	Sesudah freeze thaw	Rata-rata	SD
K(-)	1	5,9	6,07	0,15	6	6,13	0,12
	2	6,1			6,2		
	3	6,2			6,2		
F1	1	6,5	6,53	0.15	6,5	6,63	0,12
	2	6,7			6,7		
	3	6,4			6,7		
F2	1	7	6,97	0.15	7	7,13	0,15
	2	7,1			7,1		
	3	6,8			7,3		
F3	1	7,6	7,43	0.15	7,6	7,50	0,10
	2	7,4			7,4		
	3	7,3			7,5		

Keterangan:

K(-) = Formula sabun cair ekstrak herba seledri konsentrasi 0%

F1 = Formula sabun cair ekstrak herba seledri konsentrasi 2%

F2 = Formula sabun cair ekstrak herba seledri konsentrasi 4%

F3 = Formula sabun cair ekstrak herba seledri konsentrasi 8%

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
sebelum	,093	12	,200[*]	,970	12	,916
sesudah	,132	12	,200[*]	,939	12	,484

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
tinggi_busa	Based on Mean	,024	1	22	,879
	Based on Median	,024	1	22	,879
	Based on Median and with adjusted df	,024	1	21,810	,879
	Based on trimmed mean	,024	1	22	,879

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	sebelum	6,7500	12	,54523	,15739
	sesudah	6,8500	12	,54855	,15835

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	sebelum & sesudah	12	,957	,000

Paired Samples Test

		Paired Differences							Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	
					Lower	Upper			
Pair 1	sebelum - sesudah	-,10000	,15954	,04606	-,20137	,00137	-2,171	11	,053

Lampiran 19. Data hasil analisis statistik uji stabilitas berat jenis sabun cair ekstrak herba seledri

Rumus berat jenis :

$$\frac{(berat\ piknometer + sediaan) - piknometer\ kosong}{(berat\ piknometer + akuades) - piknometer\ kosong}$$

Hasil uji berat jenis sabun cair ekstrak etanol herba seledri

Formula	Replikasi	Berat jenis (g/ml)	
		Sebelum freeze thaw	Sesudah freeze thaw
K(-)	1	1,022	1,022
	2	1,023	1,023
	3	1,021	1,024
	Rata-rata	1,022	1,023
	SD	0,001	0,001
F1	1	1,030	1,035
	2	1,033	1,033
	3	1,031	1,031
	Rata-rata	1,031	1,033
	SD	0,002	0,002
F2	1	1,039	1,039
	2	1,034	1,040
	3	1,037	1,037
	Rata-rata	1,037	1,039
	SD	0,003	0,002
F3	1	1,042	1,045
	2	1,047	1,047
	3	1,044	1,044
	Rata-rata	1,044	1,045
	SD	0,003	0,002

Keterangan:

K(-) =   Formula sabun cair ekstrak herba seledri konsentrasi 0%

F1 =   Formula sabun cair ekstrak herba seledri konsentrasi 2%

F2 =   Formula sabun cair ekstrak herba seledri konsentrasi 4%

F3 =   Formula sabun cair ekstrak herba seledri konsentrasi 8%

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
sebelum	,139	12	,200[*]	,952	12	,664
sesudah	,148	12	,200[*]	,934	12	,422

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
BJ	Based on Mean	,002	1	22	,966
	Based on Median	,002	1	22	,966
	Based on Median and with adjusted df	,002	1	21,999	,966
	Based on trimmed mean	,002	1	22	,966

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	sebelum	1,03358	12	,008660	,002500
	sesudah	1,03500	12	,008655	,002498

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	sebelum & sesudah	12	,967	,000

Paired Samples Test

		Paired Differences							
					95% Confidence Interval of the Difference				Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	
Pair 1	sebelum - sesudah	-,001417	,002234	,000645	-,002836	,000003	-2,196	11	,050

Lampiran 20. Data hasil analisis statistik uji stabilitas viskositas sabun cair ekstrak herba seledri

Hasil uji viskositas sabun cair ekstrak herba seledri

Formula	Replikasi	Viskositas (dpa. S)	
		Sebelum freeze thaw	Sesudah freeze thaw
K(-)	1	9	9
	2	8	10
	3	8,5	8,5
	Rata-rata	8,5	9,17
	SD	0,50	0,76
F1	1	13	13
	2	11	15
	3	12	12
	Rata-rata	12,0	13,33
	SD	1,00	1,53
F2	1	16	16
	2	15	15
	3	14	18
	Rata-rata	15,0	16,33
	SD	1,00	1,53
F3	1	19	19
	2	18	20
	3	21	21
	Rata-rata	19,33	20
	SD	1,53	1,00

Keterangan:

K(-) = Formula sabun cair ekstrak herba seledri konsentrasi 0%

F1 = Formula sabun cair ekstrak herba seledri konsentrasi 2%

F2 = Formula sabun cair ekstrak herba seledri konsentrasi 4%

F3 = Formula sabun cair ekstrak herba seledri konsentrasi 8%

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
sebelum	,116	12	,200[*]	,959	12	,767
sesudah	,114	12	,200[*]	,948	12	,601

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
viskositas	Based on Mean	,489	1	22	,492
	Based on Median	,462	1	22	,504
	Based on Median and with adjusted df	,462	1	21,437	,504
	Based on trimmed mean	,501	1	22	,486

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	sebelum	13,7083	12	4,25579	1,22854
	sesudah	14,7083	12	4,28771	1,23776

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	sebelum & sesudah	12	,930	,000

Paired Samples Test

		Paired Differences							
					95% Confidence Interval of the Difference				Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	
Pair 1	sebelum - sesudah	-1,00000	1,59545	,46057	-2,01370	,01370	-2,171	11	,053

Lampiran 21. Data hasil analisis statistik uji hedonik sabun cair ekstrak herba seledri

Uji hedonik			
No	F1	F2	F3
1	4	4	4
2	3	3	2
3	4	4	3
4	4	4	3
5	4	3	3
6	4	3	4
7	4	4	4
8	3	3	3
9	4	4	3
10	4	4	4
11	4	3	3
12	3	3	4
13	3	4	3
14	4	4	3
15	4	3	3
Rata-rata±SD	3,73±0,46	3,53±0,52	3,27±0,59

Keterangan:

F1	=	Formula sabun cair ekstrak herba seledri konsentrasi 2%
F2	=	Formula sabun cair ekstrak herba seledri konsentrasi 4%
F3	=	Formula sabun cair ekstrak herba seledri konsentrasi 8%
4	=	Sangat suka
3	=	Suka
2	=	Kurang suka
1	=	Tidak suka

Between-Subjects Factors

		Value Label	N
kelompok	1	2%	15
	2	4%	15
	3	8%	15
panelis	1		3
	2		3
	3		3
	4		3
	5		3
	6		3
	7		3
	8		3
	9		3
	10		3
	11		3
	12		3
	13		3
	14		3
	15		3

Tests of Between-Subjects Effects

Dependent Variable: hedonik

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	7,556[a]	16	,472	2,324	,025
Intercept	554,756	1	554,756	2730,437	,000
Kelompok	1,644	2	,822	4,047	,029
Panelis	5,911	14	,422	2,078	,048
Error	5,689	28	,203		
Total	568,000	45			
Corrected Total	13,244	44			

a. R Squared = ,570 (Adjusted R Squared = ,325)

Post Hoc Tests

hedonik

Duncan[a,b]

kelompok	N	Subset	
		1	2
8%	15	3,2667	
4%	15	3,5333	3,5333
2%	15		3,7333
Sig.		,116	,234

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,203.

a. Uses Harmonic Mean Sample Size = 15,000.

b. Alpha = ,05.

Lampiran 22. Data hasil analisis uji aktivitas antibakteri sabun cair ekstrak herba seledri

Diameter daya hambat (mm)			
Sampel	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
K(-)	6,33	7	8,67	7,33±1,21
F1	18,67	16,33	19,67	18,22±1,71
F2	23,33	25	24,67	24,33±0,88
F3	27	26,33	28,67	27,33±1,21
K(+)	16,67	16	18,67	17,11±1,39

Diameter daya hambat (mm)			
Sampel	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata±SD
K(-)	0	0	0	0±0,00
F1	12,34	9,33	11	10,89±1,51
F2	17	18	16	17±1,00
F3	20,67	19,33	20	20±0,67
K(+)	16,67	16	18,67	17,11±1,39

Keterangan:

K(-) = Formula sabun cair ekstrak herba seledri konsentrasi 0%

F1   = Formula sabun cair ekstrak herba seledri konsentrasi 2%

F2   = Formula sabun cair ekstrak herba seledri konsentrasi 4%

F3   = Formula sabun cair ekstrak herba seledri konsentrasi 8%

K(+) = Sediaan paten merek X

Tests of Normality[a]

		Kolmogorov-Smirnov[b]			Shapiro-Wilk		
	kelompok	Statistic	df	Sig.	Statistic	df	Sig.
daya_hambat	2%	,196	3	.	,996	3	,879
	4%	,175	3	.	1,000	3	1,000
	8%	,175	3	.	1,000	3	1,000
	positif	,292	3	.	,924	3	,465

a. daya_hambat is constant when kelompok = negatif. It has been omitted.

b. Lilliefors Significance Correction

Descriptives

daya_hambat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
negatif	3	,0000	,00000	,00000	,0000	,0000	,00	,00
2%	3	10,8900	1,50801	,87065	7,1439	14,6361	9,33	12,34
4%	3	17,0000	1,00000	,57735	14,5159	19,4841	16,00	18,00
8%	3	20,0000	,67000	,38682	18,3356	21,6644	19,33	20,67
positif	3	17,1133	1,38911	,80200	13,6626	20,5641	16,00	18,67
Total	15	13,0007	7,45185	1,92406	8,8740	17,1274	,00	20,67

Test of Homogeneity of Variances

daya_hambat

Levene Statistic	df1	df2	Sig.
1,982	4	10	,173

ANOVA

daya_hambat

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	766,115	4	191,529	169,415	,000
Within Groups	11,305	10	1,131		
Total	777,420	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: daya_hambat
Tukey HSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
negatif	2%	-10,89000*	,86815	,000	-13,7472	-8,0328
	4%	-17,00000*	,86815	,000	-19,8572	-14,1428
	8%	-20,00000*	,86815	,000	-22,8572	-17,1428
	positif	-17,11333*	,86815	,000	-19,9705	-14,2562
2%	negatif	10,89000*	,86815	,000	8,0328	13,7472
	4%	-6,11000*	,86815	,000	-8,9672	-3,2528
	8%	-9,11000*	,86815	,000	-11,9672	-6,2528
	positif	-6,22333*	,86815	,000	-9,0805	-3,3662
4%	negatif	17,00000*	,86815	,000	14,1428	19,8572
	2%	6,11000*	,86815	,000	3,2528	8,9672
	8%	-3,00000*	,86815	,039	-5,8572	-,1428
	positif	-,11333	,86815	1,000	-2,9705	2,7438
8%	negatif	20,00000*	,86815	,000	17,1428	22,8572
	2%	9,11000*	,86815	,000	6,2528	11,9672
	4%	3,00000*	,86815	,039	,1428	5,8572
	positif	2,88667*	,86815	,047	,0295	5,7438
positif	negatif	17,11333*	,86815	,000	14,2562	19,9705
	2%	6,22333*	,86815	,000	3,3662	9,0805
	4%	,11333	,86815	1,000	-2,7438	2,9705
	8%	-2,88667*	,86815	,047	-5,7438	-,0295

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

Homogeneous Subsets

daya_hambat

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05 1	Subset for alpha = 0.05 2	Subset for alpha = 0.05 3	Subset for alpha = 0.05 4
negatif	3	,0000			
2%	3		10,8900		
4%	3			17,0000	
positif	3			17,1133	
8%	3				20,0000
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.