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Lampiran 1. Hasil determinasi tanaman daun kersen



UPT-LABORATORIUM

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Nomor : 271/DET/UPT-LAB/24.09.2021
 Hal : Hasil determinasi tumbuhan
 Lamp. : -

Nama Pemesan : Dhea Ayu Pratiwi
 NIM : 24185654A
 Alamat : Program Studi S1 Farmasi,
 Universitas Setia Budi, Surakarta
 Nama sampel : *Muntingia calabura* L/ Kersen

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
 Super Divisi : Spermatophyta
 Divisi : Magnoliophyta
 Kelas : Magnoliopsida
 Ordo : Malvales
 Famili : Tiliaceae
 Genus : *Muntingia*
 Species : *Muntingia calabura* 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 – 15a. Golongan 8 – 109b – 119b – 120b – 128b – 129b – 135b – 136b – 139b – 140b – 142b – 143b – 146b – 154b – 155b – 156b – 162b – 163b – 167b – 169b – 171b – 177b – 179a – 180b – 182b – 183b – 184b – 185b – 186b. Familia 74. Tiliaceae. 1a. 1. *Muntingia*. *Muntingia calabura* L.

Deskripsi :

Habitus : Pohon kecil, menahun, tinggi 2 – 10 m.
 Akar : Sistem akar tunggang

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- Batang** : Batang berkayu, coklat, bulat, percabangan simpodial, tegak, ranting diselubungi rapat oleh rambut biasa yang halus dan oleh rambut kelenjar.
- Daun** : Daun tunggal, berseling, helaian daun tidak sama sisi, bulat telur sampai lanset, panjang 6,3 – 9,1 cm, lebar 2,5 – 3,3 cm, ujung runcing, tepi bergerigi, permukaan bawah berambut rapat, tangkai pendek, berambut seperti wol rapat, tulang daun menyirip, hijau. Dari tiap pasang daun pelindung 1 rudimenter dan 1 bentuk benang – bentuk paku, panjang lk 0,5 cm.
- Bunga** : Bunga 1-3 menjadi satu di ketiak daun, berbilangan 5, berkelamin 2. Kelopak berbagi dalam, taju meruncing menjadi bentuk benang, berambut halus. Daun mahkota putih, tepi rata, bulat telur terbalik, gundul, panjang lk 6 mm. Tonjolan dasar bunga bentuk cawan. Benangsari banyak, terutama pada tonjolan dasar bunga. Bakal buah bertangkai pendek, gundul, beruang 5 – 6. Kepala sari hampir duduk, berlekuk 5 – 6. Tonjolan dasar bunga bentuk cawan. Benangsari banyak terutama pada tonjolan dasar bunga. Bakal buah bertangkai pendek, gundul, beruang 5 – 6. Kepala putik hampir duduk, berlekuk 5 – 6.
- Buah** : Buah buni dimahkotai dengan tangkai putik yang tetap, waktu muda hijau, setelah masak merah, panjang 1 cm.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 25 September 2021

Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati, M.Sc.

Lampiran 2. Perhitungan persen rendemen ekstrak

Bobot serbuk (g)	Ekstrak kental (g)	Rendemen (%)
600	121	20,17

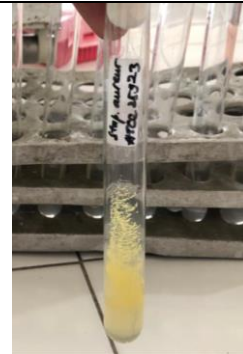
$$\% \text{Rendemen} = \frac{\text{Bobot ekstrak kental}}{\text{bobot serbuk}} \times 100\%$$

$$\% \text{Rendemen} = \frac{121}{600} \times 100\%$$

$$\% \text{Rendemen} = 20,17\%$$

Lampiran 3. Gambaran alat dan bahan penelitian

a. Ekstrak kental daun kersen

b. Bakteri *S. aureus*



c. *Vacum Rotary Evaporator*



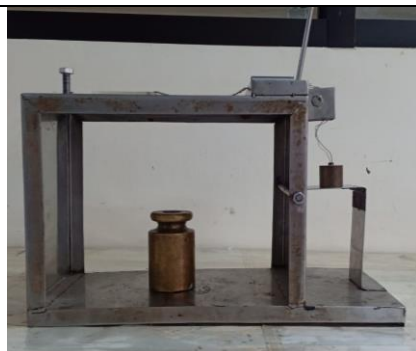
d. Moisture balance



e. pH meter



f. Viscometer Rion-04T



g. Alat daya lekat



h. Alat daya sebar

Lampiran 4. Hasil uji kandungan kimia ekstrak daun kersen

a. Uji flavonoid


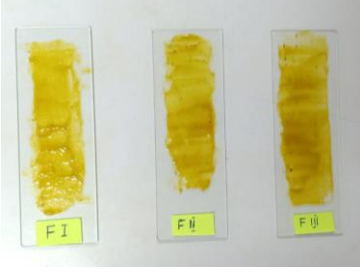
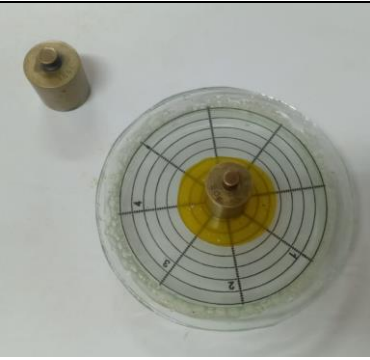





b. Uji tanin



c. Uji saponin

Lampiran 5. Hasil uji mutu fisik sediaan gel *hand wash*

 <p>a. sediaan</p>	 <p>b. Uji Homogenitas</p>
 <p>c. Uji daya sebar</p>	 <p>d. Uji daya lekat</p>
 <p>e. Uji pH</p>	 <p>f. Uji Viskositas</p>

Lampiran 6. Hasil uji daya sebar gel hand wash ekstrak daun kersen

Daya sebar (cm)					
Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata –rata	SD
F1	5,6	5,8	5,5	5,6	0,15
F2	5,4	5,5	5,1	5,3	0,21
F3	4,6	5,1	4,3	4,6	0,40
Kb1	5,5	5,1	5,4	5,3	0,21
Kb2	5,3	4,8	5,2	5,1	0,26
Kb3	4,5	4,6	4,3	4,4	0,15

Tests of Normality

	UjiDayaSebar	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
MutuFisik	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.292	3	.	.923	3	.463
	Formula 3	.232	3	.	.980	3	.726
	Kontrol basis 1	.292	3	.	.923	3	.463
	Kontrol basis 2	.314	3	.	.893	3	.363
	Kontrol basis 3	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

MutuFisik

Levene Statistic	df1	df2	Sig.
1.122	5	12	.400

ANOVA

MutuFisik

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.944	5	.589	9.636	.001
Within Groups	.733	12	.061		
Total	3.678	17			

Multiple Comparisons

Dependent Variable: MutuFisik

Tukey HSD

(I) UjiDayaSebar	(J) UjiDayaSebar	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	.3000	.2018	.679	-.378	.978
	Formula 3	.9667*	.2018	.005	.289	1.645
	Kontrol basis 1	.3000	.2018	.679	-.378	.978
	Kontrol basis 2	.5333	.2018	.160	-.145	1.211
	Kontrol basis 3	1.1667*	.2018	.001	.489	1.845
Formula 2	Formula 1	-.3000	.2018	.679	-.978	.378
	Formula 3	.6667	.2018	.055	-.011	1.345
	Kontrol basis 1	.0000	.2018	1.000	-.678	.678
	Kontrol basis 2	.2333	.2018	.849	-.445	.911
	Kontrol basis 3	.8667*	.2018	.010	.189	1.545
Formula 3	Formula 1	-.9667*	.2018	.005	-1.645	-.289
	Formula 2	-.6667	.2018	.055	-1.345	.011
	Kontrol basis 1	-.6667	.2018	.055	-1.345	.011
	Kontrol basis 2	-.4333	.2018	.327	-1.111	.245
	Kontrol basis 3	.2000	.2018	.912	-.478	.878
Kontrol basis 1	Formula 1	-.3000	.2018	.679	-.978	.378
	Formula 2	.0000	.2018	1.000	-.678	.678
	Formula 3	.6667	.2018	.055	-.011	1.345
	Kontrol basis 2	.2333	.2018	.849	-.445	.911
	Kontrol basis 3	.8667*	.2018	.010	.189	1.545
Kontrol basis 2	Formula 1	-.5333	.2018	.160	-1.211	.145
	Formula 2	-.2333	.2018	.849	-.911	.445
	Formula 3	.4333	.2018	.327	-.245	1.111
	Kontrol basis 1	-.2333	.2018	.849	-.911	.445
	Kontrol basis 3	.6333	.2018	.072	-.045	1.311
Kontrol basis 3	Formula 1	-1.1667*	.2018	.001	-1.845	-.489
	Formula 2	-.8667*	.2018	.010	-1.545	-.189
	Formula 3	-.2000	.2018	.912	-.878	.478
	Kontrol basis 1	-.8667*	.2018	.010	-1.545	-.189
	Kontrol basis 2	-.6333	.2018	.072	-1.311	.045

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

Lampiran 7. Hasil daya lekat gel *hand wash* ekstrak daun kersen

Daya kelat (detik)					
Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata -rata	SD
F1	3,17	3,13	3,14	3,14	0,02
F2	3,26	3,25	3,23	3,24	0,02
F3	3,49	3,42	3,44	3,45	0,04
Kb1	3,23	3,25	3,25	3,24	0,01
Kb2	3,55	3,5	3,53	3,52	0,03
Kb3	3,61	3,6	3,65	3,62	0,03

Tests of Normality							
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	UjiDayaLekat	Statistic	df	Sig.	Statistic	df	Sig.
MutuFisik	Formula 1	.292	3	.	.923	3	.463
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.276	3	.	.942	3	.537
	Kontrol basis 1	.175	3	.	1.000	3	1.000
	Kontrol basis 2	.219	3	.	.987	3	.780
	Kontrol basis 3	.314	3	.	.893	3	.363

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

MutuFisik

Levene Statistic	df1	df2	Sig.
1.361	5	12	.305

ANOVA

MutuFisik

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.526	5	.105	185.735	.000
Within Groups	.007	12	.001		
Total	.533	17			

Multiple Comparisons

Dependent Variable: MutuFisik

Tukey HSD

(I) UjiDayaLekat	(J) UjiDayaLekat	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-.10000*	.01944	.003	-.1653	-.0347
	Formula 3	-.30333*	.01944	.000	-.3686	-.2380
	Kontrol basis 1	-.09333*	.01944	.004	-.1586	-.0280
	Kontrol basis 2	-.38000*	.01944	.000	-.4453	-.3147
	Kontrol basis 3	-.47333*	.01944	.000	-.5386	-.4080
Formula 2	Formula 1	.10000*	.01944	.003	.0347	.1653
	Formula 3	-.20333*	.01944	.000	-.2686	-.1380
	Kontrol basis 1	.00667	.01944	.999	-.0586	.0720
	Kontrol basis 2	-.28000*	.01944	.000	-.3453	-.2147
	Kontrol basis 3	-.37333*	.01944	.000	-.4386	-.3080
Formula 3	Formula 1	.30333*	.01944	.000	.2380	.3686
	Formula 2	.20333*	.01944	.000	.1380	.2686
	Kontrol basis 1	.21000*	.01944	.000	.1447	.2753
	Kontrol basis 2	-.07667*	.01944	.019	-.1420	-.0114
	Kontrol basis 3	-.17000*	.01944	.000	-.2353	-.1047
Kontrol basis 1	Formula 1	.09333*	.01944	.004	.0280	.1586
	Formula 2	-.00667	.01944	.999	-.0720	.0586
	Formula 3	-.21000*	.01944	.000	-.2753	-.1447
	Kontrol basis 2	-.28667*	.01944	.000	-.3520	-.2214
	Kontrol basis 3	-.38000*	.01944	.000	-.4453	-.3147
Kontrol basis 2	Formula 1	.38000*	.01944	.000	.3147	.4453
	Formula 2	.28000*	.01944	.000	.2147	.3453
	Formula 3	.07667*	.01944	.019	.0114	.1420
	Kontrol basis 1	.28667*	.01944	.000	.2214	.3520
	Kontrol basis 3	-.09333*	.01944	.004	-.1586	-.0280
Kontrol basis 3	Formula 1	.47333*	.01944	.000	.4080	.5386
	Formula 2	.37333*	.01944	.000	.3080	.4386

Formula 3	.17000*	.01944	.000	.1047	.2353
Kontrol basis 1	.38000*	.01944	.000	.3147	.4453
Kontrol basis 2	.09333*	.01944	.004	.0280	.1586

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

Lampiran 8. Hasil uji viskositas gel *hand wash* ekstrak daun kersen

Uji Viskositas					
Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata –rata	SD
F1	130	150	140	140	10
F2	170	150	140	153,33	15,28
F3	180	200	195	191,66	10,41
Kb1	190	160	170	173,33	15,28
Kb2	160	190	195	181,66	18,93
Kb3	300	280	190	290	58,59

Tests of Normality

	UjiViskositas	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
MutuFisik	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.292	3	.	.923	3	.463
	Kontrol basis 1	.253	3	.	.964	3	.637
	Kontrol basis 2	.337	3	.	.855	3	.253
	Kontrol basis 3	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

MutuFisik

Levene Statistic	df1	df2	Sig.
.774	5	12	.587

ANOVA

MutuFisik

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	42533.333	5	8506.667	45.035	.000
Within Groups	2266.667	12	188.889		
Total	44800.000	17			

Multiple Comparisons

Dependent Variable: MutuFisik

Tukey HSD

(I) UjiViskositas	(J) UjiViskositas	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-13.333	11.222	.834	-51.03	24.36
	Formula 3	-51.667 [*]	11.222	.006	-89.36	-13.97
	Kontrol basis 1	-33.333	11.222	.095	-71.03	4.36
	Kontrol basis 2	-41.667 [*]	11.222	.028	-79.36	-3.97
	Kontrol basis 3	-150.000 [*]	11.222	.000	-187.69	-112.31
Formula 2	Formula 1	13.333	11.222	.834	-24.36	51.03
	Formula 3	-38.333 [*]	11.222	.045	-76.03	-.64
	Kontrol basis 1	-20.000	11.222	.510	-57.69	17.69
	Kontrol basis 2	-28.333	11.222	.191	-66.03	9.36
	Kontrol basis 3	-136.667 [*]	11.222	.000	-174.36	-98.97
Formula 3	Formula 1	51.667 [*]	11.222	.006	13.97	89.36
	Formula 2	38.333 [*]	11.222	.045	.64	76.03
	Kontrol basis 1	18.333	11.222	.594	-19.36	56.03
	Kontrol basis 2	10.000	11.222	.942	-27.69	47.69
	Kontrol basis 3	-98.333 [*]	11.222	.000	-136.03	-60.64
Kontrol basis 1	Formula 1	33.333	11.222	.095	-4.36	71.03
	Formula 2	20.000	11.222	.510	-17.69	57.69
	Formula 3	-18.333	11.222	.594	-56.03	19.36
	Kontrol basis 2	-8.333	11.222	.972	-46.03	29.36
	Kontrol basis 3	-116.667 [*]	11.222	.000	-154.36	-78.97
Kontrol basis 2	Formula 1	41.667 [*]	11.222	.028	3.97	79.36

	Formula 2	28.333	11.222	.191	-9.36	66.03
	Formula 3	-10.000	11.222	.942	-47.69	27.69
	Kontrol basis 1	8.333	11.222	.972	-29.36	46.03
	Kontrol basis 3	-108.333*	11.222	.000	-146.03	-70.64
Kontrol basis 3	Formula 1	150.000*	11.222	.000	112.31	187.69
	Formula 2	136.667*	11.222	.000	98.97	174.36
	Formula 3	98.333*	11.222	.000	60.64	136.03
	Kontrol basis 1	116.667*	11.222	.000	78.97	154.36
	Kontrol basis 2	108.333*	11.222	.000	70.64	146.03

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

Lampiran 9. Hasil uji pH gel *hand wash* ekstrak daun kersen

Uji pH					
Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata -rata	SD
F1	6,25	6,23	6,27	6,25	0,02
F2	6,21	6,22	6,25	6,22	0,02
F3	6,02	6,06	6,08	6,05	0,03
Kb1	7,04	6,95	6,96	6,98	0,05
Kb2	6,46	6,45	6,4	6,43	0,03
Kb3	6,37	6,4	6,44	6,4	0,04

Tests of Normality

	UjipH	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
MutuFisik	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.292	3	.	.923	3	.463
	Formula 3	.253	3	.	.964	3	.637
	Kontrol basis 1	.349	3	.	.832	3	.194
	Kontrol basis 2	.328	3	.	.871	3	.298
	Kontrol basis 3	.204	3	.	.993	3	.843

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

MutuFisik

Levene Statistic	df1	df2	Sig.
1.152	5	12	.387

ANOVA

MutuFisik

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.542	5	.308	286.140	.000
Within Groups	.013	12	.001		
Total	1.555	17			

Multiple Comparisons

Dependent Variable: MutuFisik

Tukey HSD

(I) UjipH	(J) UjipH	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	.02333	.02681	.947	-.0667	.1134
	Formula 3	.19667*	.02681	.000	.1066	.2867
	Kontrol basis 1	-.73333*	.02681	.000	-.8234	-.6433
	Kontrol basis 2	-.18667*	.02681	.000	-.2767	-.0966
	Kontrol basis 3	-.15333*	.02681	.001	-.2434	-.0633
Formula 2	Formula 1	-.02333	.02681	.947	-.1134	.0667
	Formula 3	.17333*	.02681	.000	.0833	.2634
	Kontrol basis 1	-.75667*	.02681	.000	-.8467	-.6666
	Kontrol basis 2	-.21000*	.02681	.000	-.3000	-.1200
	Kontrol basis 3	-.17667*	.02681	.000	-.2667	-.0866
Formula 3	Formula 1	-.19667*	.02681	.000	-.2867	-.1066
	Formula 2	-.17333*	.02681	.000	-.2634	-.0833
	Kontrol basis 1	-.93000*	.02681	.000	-1.0200	-.8400
	Kontrol basis 2	-.38333*	.02681	.000	-.4734	-.2933

	Kontrol basis 3	-.35000*	.02681	.000	-.4400	-.2600
Kontrol basis 1	Formula 1	.73333*	.02681	.000	.6433	.8234
	Formula 2	.75667*	.02681	.000	.6666	.8467
	Formula 3	.93000*	.02681	.000	.8400	1.0200
	Kontrol basis 2	.54667*	.02681	.000	.4566	.6367
	Kontrol basis 3	.58000*	.02681	.000	.4900	.6700
Kontrol basis 2	Formula 1	.18667*	.02681	.000	.0966	.2767
	Formula 2	.21000*	.02681	.000	.1200	.3000
	Formula 3	.38333*	.02681	.000	.2933	.4734
	Kontrol basis 1	-.54667*	.02681	.000	-.6367	-.4566
	Kontrol basis 3	.03333	.02681	.808	-.0567	.1234
Kontrol basis 3	Formula 1	.15333*	.02681	.001	.0633	.2434
	Formula 2	.17667*	.02681	.000	.0866	.2667
	Formula 3	.35000*	.02681	.000	.2600	.4400
	Kontrol basis 1	-.58000*	.02681	.000	-.6700	-.4900
	Kontrol basis 2	-.03333	.02681	.808	-.1234	.0567

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

Lampiran 10. Hasil uji stabilitas daya sebar gel *hand wash* ekstrak daun kersen

Formula	Replikasi	Uji Daya Sebar	
		Sebelum <i>freeze thaw</i>	Sesudah <i>freeze thaw</i>
F1	1	5,6	6,2
	2	5,8	6,1
	3	5,5	6,3
	Rata-Rata	5,63	6,2
	SD	0,15	0,1
F2	1	5,4	5,7
	2	5,5	5,3
	3	5,1	5,8
	Rata-Rata	5,33	5,6
	SD	0,21	0,26
F3	1	4,3	5,1
	2	4,6	5,2
	3	5,1	5,3
	Rata-Rata	4,66	5,2
	SD	4,66	5,2
Kb 1	1	5,6	5,7
	2	5,8	6,2
	3	5,5	5,8
	Rata-Rata	5,63	5,9
	SD	5,63	5,9
Kb 2	1	5,2	5,3
	2	5,3	5,7
	3	4,8	5,8
	Rata-Rata	5,1	5,6
	SD	0,26	0,26
Kb 3	1	4,6	4,8
	2	4,5	5,1
	3	4,3	4,7
	Rata-Rata	4,46	4,86
	SD	0,15	0,21

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1_Sebelum	.314	3	.	.893	3	.363
F1_Setelah	.175	3	.	1.000	3	1.000
F2_Sebelum	.292	3	.	.923	3	.463
F2_Setelah	.328	3	.	.871	3	.298
F3_Sebelum	.232	3	.	.980	3	.726
F3_Setelah	.175	3	.	1.000	3	1.000
Kb1_Sebelum	.253	3	.	.964	3	.637
Kb1_Setelah	.314	3	.	.893	3	.363
Kb2_Sebelum	.314	3	.	.893	3	.363
Kb2_Setelah	.314	3	.	.893	3	.363
Kb3_Sebelum	.253	3	.	.964	3	.637
Kb3_Setelah	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

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	F1_Sebelum - F1_Setelah	-.5800	.2553	.1474	-1.2143	.0543	-3.934	2	.059
Pair 2	F2_Sebelum - F2_Setelah	-.6000	.2646	.1528	-1.2572	.0572	-3.928	2	.059
Pair 3	F3_Sebelum - F3_Setelah	-.5333	.3055	.1764	-1.2922	.2256	-3.024	2	.094
Pair 4	Kb1_Sebelum - Kb1_Setelah	-.2667	.1528	.0882	-.6461	.1128	-3.024	2	.094
Pair 5	Kb2_Sebelum - Kb2_Setelah	-.5000	.4583	.2646	-1.6384	.6384	-1.890	2	.199
Pair 6	Kb3_Sebelum - Kb3_Setelah	-.4000	.2000	.1155	-.8968	.0968	-3.464	2	.074

Lampiran 11. Hasil uji stabilitas daya lekat gel *hand wash* ekstrak daun kersen

Formula	Replikasi	Uji Daya Lekat	
		Sebelum <i>freeze thaw</i>	Sesudah <i>freeze thaw</i>
F1	1	3,17	3,11
	2	3,13	3,1
	3	3,14	3,06
	Rata-Rata	3,14	3,09
	SD	0,02	0,03
F2	1	3,26	3,25
	2	3,25	3,25
	3	3,23	3,23
	Rata-Rata	3,24	3,24
	SD	0,02	0,01
F3	1	3,44	3,38
	2	3,42	3,36
	3	3,44	3,41
	Rata-Rata	3,43	3,38
	SD	0,01	0,03
Kb 1	1	3,23	3,13
	2	3,25	3,19
	3	3,24	3,15
	Rata-Rata	3,24	3,15
	SD	0,01	0,03
Kb 2	1	3,55	3,38
	2	3,5	3,33
	3	3,53	3,37
	Rata-Rata	3,52	3,36
	SD	0,03	0,03
Kb 3	1	3,61	3,54
	2	3,6	3,57
	3	3,65	3,55
	Rata-Rata	3,62	3,55
	SD	0,03	0,02

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1_Sebelum	.175	3	.	1.000	3	1.000
F1_Setelah	.253	3	.	.964	3	.637
F2_Sebelum	.253	3	.	.964	3	.637
F2_Setelah	.253	3	.	.964	3	.637
F3_Sebelum	.292	3	.	.923	3	.463
F3_Setelah	.292	3	.	.923	3	.463
Kb1_Sebelum	.253	3	.	.964	3	.637
Kb1_Setelah	.175	3	.	1.000	3	1.000
Kb2_Sebelum	.337	3	.	.855	3	.253
Kb2_Setelah	.175	3	.	1.000	3	1.000
Kb3_Sebelum	.321	3	.	.881	3	.328
Kb3_Setelah	.343	3	.	.842	3	.220

a. Lilliefors Significance Correction

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	F1_Sebelum - F1_Setelah	13.333	15.275	8.819	-24.612	51.279	1.512	2	.270
Pair 2	F2_Sebelum - F2_Setelah	26.667	28.868	16.667	-45.044	98.378	1.600	2	.251
Pair 3	F3_Sebelum - F3_Setelah	18.333	10.408	6.009	-7.522	44.189	3.051	2	.093
Pair 4	Kb1_Sebelum - Kb1_Setelah	13.333	11.547	6.667	-15.351	42.018	2.000	2	.184
Pair 5	Kb2_Sebelum - Kb2_Setelah	21.667	10.408	6.009	-4.189	47.522	3.606	2	.069
Pair 6	Kb3_Sebelum - Kb3_Setelah	-3.333	80.829	46.667	-204.124	197.457	-.071	2	.950

Lampiran 12. Hasil uji stabilitas viskositas gel *hand wash* ekstrak daun kersen

Formula	Replikasi	Uji Viskositas	
		Sebelum <i>freeze thaw</i>	Sesudah <i>freeze thaw</i>
F1	1	130	130
	2	150	140
	3	140	110
	Rata-Rata	140	126,66
	SD	10	15,28
F2	1	170	110
	2	150	140
	3	140	130
	Rata-Rata	153,33	126,66
	SD	15,28	15,28
F3	1	180	150
	2	200	190
	3	195	180
	Rata-Rata	191,66	173,33
	SD	10,41	20,82
Kb 1	1	190	170
	2	160	160
	3	170	150
	Rata-Rata	173,33	160
	SD	15,28	10
Kb 2	1	160	150
	2	190	160
	3	195	170
	Rata-Rata	181,66	160
	SD	18,93	10
Kb 3	1	300	290
	2	280	210
	3	190	280
	Rata-Rata	256,66	260
	SD	58,59	43,59

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1_Sebelum	.175	3	.	1.000	3	1.000
F1_Setelah	.253	3	.	.964	3	.637
F2_Sebelum	.253	3	.	.964	3	.637
F2_Setelah	.253	3	.	.964	3	.637
F3_Sebelum	.292	3	.	.923	3	.463
F3_Setelah	.292	3	.	.923	3	.463
Kb1_Sebelum	.253	3	.	.964	3	.637
Kb1_Setelah	.175	3	.	1.000	3	1.000
Kb2_Sebelum	.337	3	.	.855	3	.253
Kb2_Setelah	.175	3	.	1.000	3	1.000
Kb3_Sebelum	.321	3	.	.881	3	.328
Kb3_Setelah	.343	3	.	.842	3	.220

a. Lilliefors Significance Correction

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	F1_Sebelum - F1_Setelah	13.333	15.275	8.819	-24.612	51.279	1.512	2	.270
Pair 2	F2_Sebelum - F2_Setelah	26.667	28.868	16.667	-45.044	98.378	1.600	2	.251
Pair 3	F3_Sebelum - F3_Setelah	18.333	10.408	6.009	-7.522	44.189	3.051	2	.093
Pair 4	Kb1_Sebelum - Kb1_Setelah	13.333	11.547	6.667	-15.351	42.018	2.000	2	.184
Pair 5	Kb2_Sebelum - Kb2_Setelah	21.667	10.408	6.009	-4.189	47.522	3.606	2	.069
Pair 6	Kb3_Sebelum - Kb3_Setelah	-3.333	80.829	46.667	-	197.457	-.071	2	.950

Lampiran 13. Hasil uji stabilitas pH gel *hand wash* ekstrak daun kersen

Formula	Replikasi	Uji pH	
		Sebelum <i>freeze thaw</i>	Sesudah <i>freeze thaw</i>
F1	1	6,25	6,21
	2	6,23	6,2
	3	6,27	6,26
	Rata-Rata	6,25	6,22
	SD	0,02	0,03
F2	1	6,21	6,19
	2	6,22	6,2
	3	6,25	6,23
	Rata-Rata	6,22	6,2
	SD	0,02	0,02
F3	1	6,02	6,02
	2	6,06	6,04
	3	6,08	6,05
	Rata-Rata	6,05	6,03
	SD	0,03	0,02
Kb 1	1	7,04	7,04
	2	6,95	6,92
	3	6,96	6,94
	Rata-Rata	6,98	6,96
	SD	0,05	0,06
Kb 2	1	6,46	6,45
	2	6,45	6,44
	3	6,4	6,43
	Rata-Rata	6,43	6,44
	SD	0,03	0,01
Kb 3	1	6,44	6,42
	2	6,4	6,4
	3	6,47	6,43
	Rata-Rata	6,43	6,41
	SD	0,04	0,02

Tests of Normality

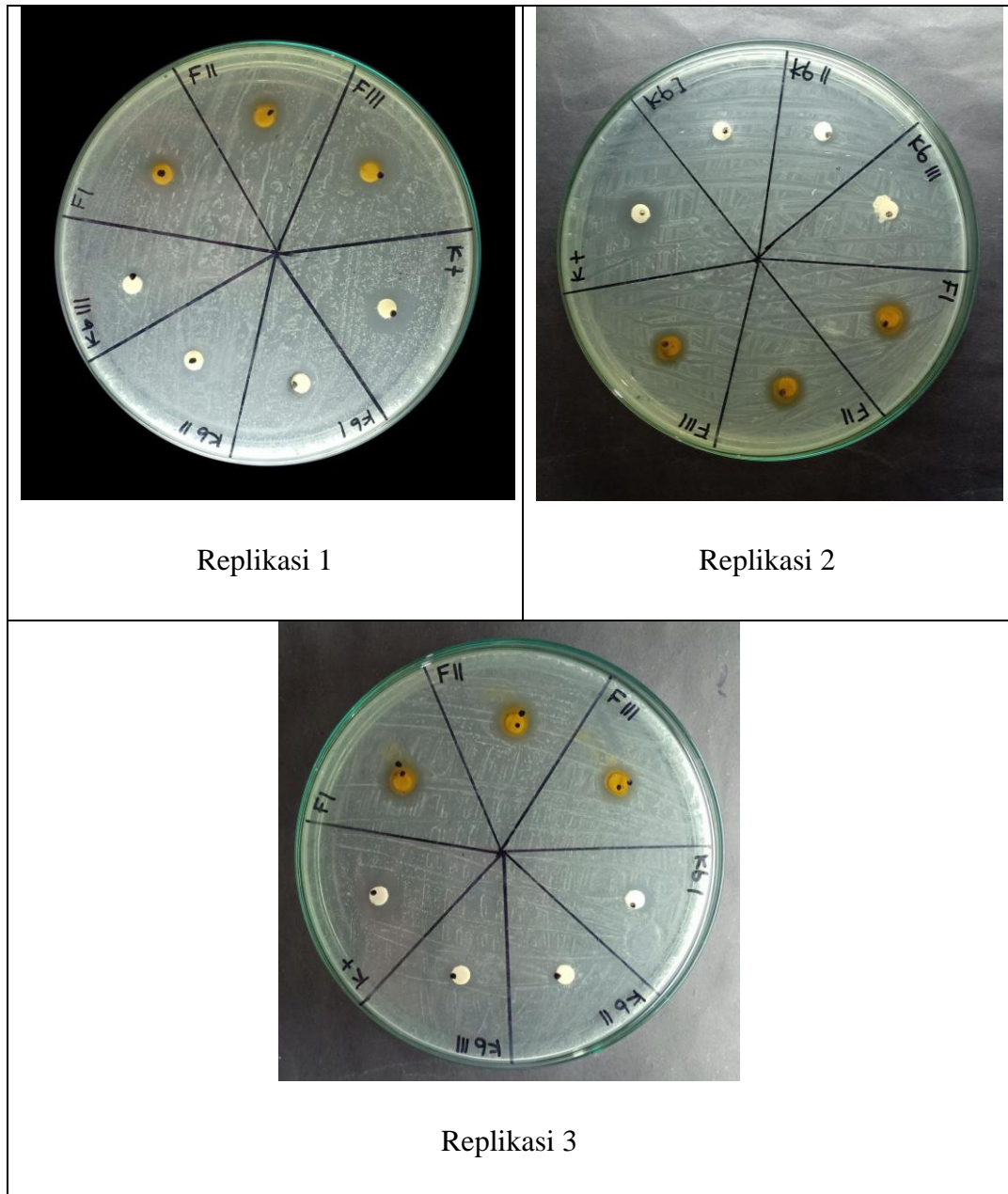
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
F1_Sebelum	.175	3	.	1.000	3	1.000
F1_Setelah	.328	3	.	.871	3	.298
F2_Sebelum	.292	3	.	.923	3	.463
F2_Setelah	.292	3	.	.923	3	.463
F3_Sebelum	.253	3	.	.964	3	.637
F3_Setelah	.253	3	.	.964	3	.637
Kb1_Sebelum	.349	3	.	.832	3	.194
Kb1_Setelah	.328	3	.	.871	3	.298
Kb2_Sebelum	.328	3	.	.871	3	.298
Kb2_Setelah	.175	3	.	1.000	3	1.000
Kb3_Sebelum	.204	3	.	.993	3	.843
Kb3_Setelah	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

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 F1_Sebelum - F1_Setelah	.02667	.01528	.00882	-.01128	.06461	3.024	2	.094	
Pair 3 F3_Sebelum - F3_Setelah	.01667	.01528	.00882	-.02128	.05461	1.890	2	.199	
Pair 4 Kb1_Sebelum - Kb1_Setelah	.01667	.01528	.00882	-.02128	.05461	1.890	2	.199	
Pair 5 Kb2_Sebelum - Kb2_Setelah	-.00333	.02309	.01333	-.06070	.05404	-2.250	2	.826	
Pair 6 Kb3_Sebelum - Kb3_Setelah	.02000	.02000	.01155	-.02968	.06968	1.732	2	.225	

Lampiran 14. Hasil uji aktivitas antibakteri gel *hand wash* ekstrak daun kersen terhadap *S. aureus*



Formula	Daya Hambat Bakteri <i>S. aureus</i> (mm)				
	Replikasi 1	Replikasi 2	Replikasi 3	Rata – rata	SD
F1	14	15,75	16	15,25	1,09
F2	14,75	16	16,33	15,69	0,83
F3	14,5	15	16,3	15,26	0,92
Kb 1	0,5	0,6	0,5	0,53	0,06
Kb2	0,5	0,6	0,3	0,46	0,15
Kb 3	0,5	0,4	0,5	0,46	0,06
Kontrol Positif	18	18,7	18,5	18,4	0,36

Tests of Normality

	UjiAktivitasAntibakteri	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DayaHambat	1	.343	3	.	.842	3	.220
	2	.310	3	.	.898	3	.381
	3	.280	3	.	.938	3	.520
	4	.253	3	.	.964	3	.637
	5	.175	3	.	1.000	3	1.000
	6	.253	3	.	.964	3	.637
	7	.276	3	.	.942	3	.537

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

DayaHambat

Levene Statistic	df1	df2	Sig.
4.974	6	14	.006

Multiple Comparisons

Dependent Variable: DayaHambat

Dunnnett T3

(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval
UjiAktivitasAnti	UjiAktivitasAnti				

bakteri	bakteri				Lower Bound	Upper Bound
1	2	-.44333	.79207	1.000	-4.9349	4.0482
	3	-.01667	.82681	1.000	-4.5880	4.5547
	4	14.61667*	.63530	.008	8.6406	20.5928
	5	14.65000*	.63180	.009	8.5525	20.7475
	6	14.61667*	.63530	.008	8.6406	20.5928
	7	-3.15000	.66270	.157	-8.4204	2.1204
	2	1	.44333	.79207	1.000	-4.0482
3		.42667	.72064	1.000	-3.5271	4.3805
4		15.06000*	.48921	.004	10.5953	19.5247
5		15.09333*	.48464	.004	10.4801	19.7066
6		15.06000*	.48921	.004	10.5953	19.5247
7		-2.70667	.52429	.112	-6.4646	1.0513
3		1	.01667	.82681	1.000	-4.5547
	2	-.42667	.72064	1.000	-4.3805	3.5271
	4	14.63333*	.54365	.005	9.6017	19.6650
	5	14.66667*	.53955	.006	9.4976	19.8358
	6	14.63333*	.54365	.005	9.6017	19.6650
	7	-3.13333	.57542	.107	-7.4478	1.1812
	4	1	-14.61667*	.63530	.008	-20.5928
2		-15.06000*	.48921	.004	-19.5247	10.5953
3		-14.63333*	.54365	.005	-19.6650	-9.6017
5		.03333	.10541	1.000	-.5971	.6637
6		.00000	.12472	1.000	-.6796	.6796
7		-17.76667*	.22608	.000	-19.4016	-
						16.1317
5	1	-14.65000*	.63180	.009	-20.7475	-8.5525
	2	-15.09333*	.48464	.004	-19.7066	-
						10.4801
	3	-14.66667*	.53955	.006	-19.8358	-9.4976
	4	-.03333	.10541	1.000	-.6637	.5971
	6	-.03333	.10541	1.000	-.6637	.5971

	7	-17.80000*	.21602	.000	-19.6133	- 15.9867
6	1	-14.61667*	.63530	.008	-20.5928	-8.6406
	2	-15.06000*	.48921	.004	-19.5247	- 10.5953
	3	-14.63333*	.54365	.005	-19.6650	-9.6017
	4	.00000	.12472	1.000	-.6796	.6796
	5	.03333	.10541	1.000	-.5971	.6637
	7	-17.76667*	.22608	.000	-19.4016	- 16.1317
	7	1	3.15000	.66270	.157	-2.1204
	2	2.70667	.52429	.112	-1.0513	6.4646
	3	3.13333	.57542	.107	-1.1812	7.4478
	4	17.76667*	.22608	.000	16.1317	19.4016
	5	17.80000*	.21602	.000	15.9867	19.6133
	6	17.76667*	.22608	.000	16.1317	19.4016

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