


L
A
M
P
I
R
A
N

Lampiran 1. Hasil determinasi tanaman bawang merah



**UNIVERSITAS
SETIA BUDI**

UPT-LABORATORIUM

Jl. Letjen Sutoyo, Mojosongo-Solo 57127 Telp. 0271-852518, Fax. 0271-853275

Nomor : 94/DET/UPT-LAB/11.11.2020
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Ulfa Luthfiyana
NIM : 23175276A
Alamat : Program Studi S1 Farmasi, Universitas Setia Budi, Surakarta

HASIL DETERMINASI TUMBUHAN

Nama sampel : *Allium cepa* L.
Familia : Amaryllidaceae.

Hasil Determinasi menurut C.A. Backer & R.C. Bakhuizen van den Brink Jr. (1963) dan She *et al.* (2005) :

1b – 2b – 3b – 4b – 12b – 13b – 14b – 17b – 18b – 19b – 20b – 21b – 22b – 23b – 24b – 25b
– 26b – 27a – 28b – 29b – 30b – 31b – 403a – 414a – 415a – 416b – 417b – 418a – 419c –
420b – 421b – 422b – 426b – 428b – 429a – 430b – 431b – 432a. Familia
218.Amaryllidaceae. 1a – 2b – 3a – 4a. 1.Allium. 1a – 2a – 3b. *Allium cepa* L.

Deskripsi:

Habitus : Herba semusim, berumbi lapis.
Batang : Batang sangat pendek.
Daun : Daun tunggal, memeluk umbi lapis, tumbuh lurus ke atas, panjang lk 26 cm,
lebar lk 0,5 cm, warna hijau, berlubang, berdaging, ujung runcing.

- Bunga** : Bunga majemuk, bentuk bongkol, bertangkai silindris, panjang lk 40 cm, hijau, benangsari 6, mahkota bentuk bulat telur.
- Akar** : Akar serabut, warna putih.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 11 November 2020
Penanggung jawab
Determinasi Tumbuhan

A handwritten signature in blue ink, appearing to read 'Dra. Dewi Sujistyawati'.

Dra. Dewi Sujistyawati. M.Sc.

Lampiran 2. Surat keterangan hewan uji


"ABIMANYU FARM"
✓ Mencit putih jantan ✓ Tikus Wistar ✓ Swis Webster ✓ Cacing
✓ Mencit Balb/C ✓ Kelinci New Zealand
Ngampon RT 04 / RW 04. Mojosongo Kec. Jebres Surakarta. Phone 085 629 994 33 / Lab USB Ska

Yang bertanda tangan di bawah ini:
Nama : Sigit Pramono

Selaku pengelola Abimanyu Farm, menerangkan bahwa hewan uji yang digunakan untuk penelitian, oleh:
Nama : Ulfa Luthiyyana
NIM : 23175276A
Institusi : Universitas Setia Budi

Merupakan hewan uji dengan spesifikasi sebagai berikut:
Jenis hewan : Kelinci New Zealand
Umur : 2-3 bulan
Jumlah : 5 ekor
Jenis kelamin : Jantan
Keterangan : Sehat
Asal-usul : Unit Pengembangan Hewan Percobaan Boyolali

Yang pengembangan dan pengelolaannya disesuaikan standar baku penelitian. Demikian surat keterangan ini dibuat untuk digunakan sebagaimana mestinya.

Surakarta, 26 November 2020
Hormat kami

Sigit Pramono
"ABIMANYU FARM"

Lampiran 3. Perhitungan rendemen bobot kering terhadap bobot basah kulit bawang merah

$$\% \text{ rendemen} : \frac{\text{bobot kering (g)}}{\text{Bobot basah (g)}} \times 100 \%$$

$$\% \text{ rendemen} : \frac{1.324 \text{ g}}{3.000 \text{ g}} \times 100 \%$$

$$\% \text{ rendemen} : 44,13 \%$$

Lampiran 4. Perhitungan rendemen serbuk kulit bawang merah

$$\% \text{ rendemen} : \frac{\text{bobot serbuk (g)}}{\text{Bobot kering (g)}} \times 100 \%$$

$$\% \text{ rendemen} : \frac{942 \text{ g}}{1.324 \text{ g}} \times 100 \%$$

$$\% \text{ rendemen} : 71,15 \%$$

Lampiran 5. Perhitungan rendemen ekstrak etanol kulit bawang merah

$$\% \text{ rendemen} : \frac{\text{bobot ekstrak (g)}}{\text{Bobot serbuk (g)}} \times 100 \%$$

$$\% \text{ rendemen} : \frac{77,33 \text{ g}}{500 \text{ g}} \times 100 \%$$

$$\% \text{ rendemen} : 15,47 \%$$

Lampiran 6. Hasil uji pH hari ke 1

Replikasi	F1	F2	F3	K(-)
1	6.68	7.15	6.80	7.85
2	6.65	7.10	6.78	7.80
3	6.70	7.13	6.72	7.86
rata-rata	6.68	7.13	6.77	7.84
SD	0.03	0.03	0.04	0.03

Lampiran 7. Hasil uji pH hari ke 21

Replikasi	F1	F2	F3	K(-)
1	6.05	7.05	6.08	7.12
2	6.02	7.02	6.10	7.10
3	6.05	7.01	6.05	7.15
rata-rata	6.04	7.03	6.08	7.12
SD	0.02	0.02	0.03	0.03

Lampiran 8. Data uji statistik uji pH formulasi gel ekstrak etanol kulit bawang merah

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
PH	18	6.6189	.43683	6.02	7.15

One-Sample Kolmogorov-Smirnov Test

		PH
N		18
Normal Parameters ^{a,b}	Mean	6.6189
	Std. Deviation	.43683
Most Extreme Differences	Absolute	.216
	Positive	.216
	Negative	-.195
Test Statistic		.216
Asymp. Sig. (2-tailed)		.026 ^c

- a. Test distribution is Normal.
- b. Calculated from data.
- c. Lilliefors Significance Correction.

Friedman Test

Test Statistics^a

N	18
Chi-Square	30.545
df	2
Asymp. Sig.	.000

- a. Friedman Test

Lampiran 9. Hasil uji viskositas hari ke 1

Replikasi	F1	F2	F3	K(-)
1	200.00	200.00	190.00	150.00
2	190.00	200.00	200.00	170.00
3	200.00	210.00	200.00	160.00
rata-rata	196.67	203.33	196.67	160.00
SD	5.77	5.77	5.77	10.00

Lampiran 10. Hasil uji viskositas hari ke 21

Replikasi	F1	F2	F3	K(-)
1	160.00	180.00	160.00	140.00
2	150.00	170.00	160.00	150.00
3	170.00	160.00	150.00	130.00
rata-rata	160.00	170.00	156.67	140.00
SD	10.00	10.00	5.77	10.00

Lampiran 11. Data uji statistik viskositas gel ekstrak etanol kulit bawang merah

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Viskositas	18	180.5556	20.42842	150.00	210.00

One-Sample Kolmogorov-Smirnov Test

		Viskositas
N		18
Normal Parameters ^{a,b}	Mean	180.5556
	Std. Deviation	20.42842
Most Extreme Differences	Absolute	.218
	Positive	.176
	Negative	-.218
Test Statistic		.218
Asymp. Sig. (2-tailed)		.023 ^c

- a. Test distribution is Normal.
 b. Calculated from data.
 c. Lilliefors Significance Correction.

Friedman Test

Test Statistics^a

N	18
Chi-Square	30.545
df	2
Asymp. Sig.	.000

- a. Friedman Test

Lampiran 12. Hasil uji daya lekat gel hari ke 1

Replikasi	F1	F2	F3	K(-)
1	1.13	1.46	1.44	1.29
2	1.25	1.56	1.53	1.29
3	1.11	1.47	1.50	1.19
rata-rata	1.16	1.50	1.49	0.83
SD	0.08	0.06	0.05	0.07

Lampiran 13. Hasil uji daya lekat gel hari ke 21

Replikasi	F1	F2	F3	K(-)
1	1.09	1.40	1.20	1.26
2	1.16	1.44	1.26	1.24
3	1.02	1.49	1.16	1.15
rata-rata	1.09	1.44	1.21	1.22
SD	0.07	0.05	0.05	0.06

Lampiran 14. Data uji statistik daya lekat gel ekstrak etanol kulit bawang merah

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Dayalekat	18	1.3150	.17774	1.02	1.56

One-Sample Kolmogorov-Smirnov Test

		Dayalekat
N		18
Normal Parameters ^{a,b}	Mean	1.3150
	Std. Deviation	.17774
Most Extreme Differences	Absolute	.204
	Positive	.142
	Negative	-.204
Test Statistic		.204
Asymp. Sig. (2-tailed)		.047 ^c

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

Friedman Test

Test Statistics^a

N	18
Chi-Square	3.273
df	2
Asymp. Sig.	.195

a. Friedman Test

Lampiran 15. Hasil uji daya sebar hari ke 1

Formula	Beban (g)	Diameter (cm)	Rata-rata (cm)	SD	Rata-rata±SD
K(-)	0	4.2	4.33	0.15	4.33±0.15
		4.3			
		4.5			
	50	5	5.10	0.17	5.10±0.17
		5			
		5.3			
	100	5.4	5.47	0.06	5.47±0.06
		5.5			
		5.5			
	150	5.5	5.57	0.12	5.57±0.12
		5.7			
		5.5			
F1	0	4.5	4.63	0.23	4.63±0.23
		4.5			
		4.9			
	50	4.8	4.87	0.06	4.87±0.06
		4.9			
		4.9			
	100	5.3	5.30	0.10	5.30±0.10
		5.2			
		5.4			
	150	5.6	5.47	0.12	5.47±0.12
		5.4			
		5.4			

Formula	Beban (g)	Diameter (cm)	Rata-rata (cm)	SD	Rata-rata±SD
F2	0	4.8	4.73	0.12	4.73±0.12
		4.8			
		4.6			
	50	5	5.07	0.12	5.07±0.12
		5			
		5.2			
	100	5.3	5.40	0.10	5.40±0.10
		5.5			
		5.4			
	150	5.5	5.70	0.17	5.70±0.17
		5.8			
		5.8			
F3	0	4.5	4.53	0.06	4.53±0.06
		4.5			
		4.6			
	50	4.7	4.83	0.12	4.83±0.12
		4.9			
		4.9			
	100	5.2	5.30	0.10	5.30±0.10
		5.3			
		5.4			
	150	5.5	5.60	0.10	5.60±0.10
		5.7			
		5.6			

Lampiran 16. Hasil uji daya sebar hari ke 21

Formula	Beban (g)	Diameter (cm)	Rata-rata (cm)	SD	Rata-rata±SD
K(-)	0	4.4	4.47	0.06	4.47±0.06
		4.5			
		4.5			
	50	5.2	5.27	0.06	5.27±0.06
		5.3			
		5.3			
	100	5.6	5.70	0.10	5.70±0.10
		5.8			
		5.7			
	150	5.7	5.77	0.12	5.77±0.12
		5.7			
		5.9			
F1	0	5.6	5.53	0.12	5.53±0.12
		5.6			
		5.4			
	50	5.9	5.83	0.12	5.83±0.12
		5.9			
		5.7			
	100	5.7	5.97	0.25	5.97±0.25
		6			
		6.2			
	150	6.2	6.27	0.12	6.27±0.12
		6.2			
		6.4			

Formula	Beban (g)	Diameter (cm)	Rata-rata (cm)	SD	Rata-rata±SD
F2	0	5.2	5.37	0.15	5.37±0.15
		5.4			
		5.5			
	50	5.5	5.57	0.12	5.57±0.12
		5.7			
		5.5			
	100	5.6	5.77	0.15	5.77±0.15
		5.8			
		5.9			
	150	6.2	6.13	0.06	6.13±0.06
		6.1			
		6.1			
F3	0	5	5.10	0.10	5.10±0.10
		5.1			
		5.2			
	50	5.3	5.43	0.12	5.43±0.12
		5.5			
		5.5			
	100	5.8	5.87	0.06	5.87±0.06
		5.9			
		5.9			
	150	6.2	6.30	0.10	6.30±0.10
		6.3			
		6.4			

**Lampiran 17. Data statistik uji daya sebar formulasi gel ekstrak etanol kulit
bawang merah**

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Dayasebar	24	5.4404	.49931	4.53	6.30

One-Sample Kolmogorov-Smirnov Test

		Dayasebar
N		24
Normal Parameters ^{a,b}	Mean	5.4404
	Std. Deviation	.49931
Most Extreme Differences	Absolute	.098
	Positive	.082
	Negative	-.098
Test Statistic		.098
Asymp. Sig. (2-tailed)		.200 ^{c,d}

- a. Test distribution is Normal.
- b. Calculated from data.
- c. Lilliefors Significance Correction.
- d. This is a lower bound of the true significance.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: Dayasebar

Formula	Hari	Mean	Std. Deviation	N
F1	hari ke 1	5.0675	.38578	4
	hari ke 21	5.9000	.30746	4
	Total	5.4838	.54983	8
F2	hari ke 1	5.2250	.41845	4
	hari ke 21	5.7100	.32414	4
	Total	5.4675	.43276	8
F3	hari ke 1	5.0650	.47711	4
	hari ke 21	5.6750	.52259	4
	Total	5.3700	.56649	8
Total	hari ke 1	5.1192	.39565	12
	hari ke 21	5.7617	.37360	12
	Total	5.4404	.49931	24

Levene's Test of Equality of Error Variances^a

Dependent Variable: Dayasebar

F	df1	df2	Sig.
.740	5	18	.603

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula + Hari + Formula * Hari

Tests of Between-Subjects Effects

Dependent Variable: Dayasebar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.661 ^a	5	.532	3.118	.034
Intercept	710.355	1	710.355	4161.188	.000
Formula	.061	2	.030	.177	.839
Hari	2.477	1	2.477	14.509	.001
Formula * Hari	.124	2	.062	.363	.701
Error	3.073	18	.171		
Total	716.089	24			
Corrected Total	5.734	23			

a. R Squared = .464 (Adjusted R Squared = .315)

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Dayasebar

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F1	F2	.0162	.20659	.997	-.5110	.5435
	F3	.1138	.20659	.847	-.4135	.6410
F2	F1	-.0162	.20659	.997	-.5435	.5110
	F3	.0975	.20659	.885	-.4297	.6247
F3	F1	-.1138	.20659	.847	-.6410	.4135
	F2	-.0975	.20659	.885	-.6247	.4297

Based on observed means.

The error term is Mean Square(Error) = .171.

Homogeneous Subsets

Dayasebar

Tukey HSD^{a,b}

Formula	N	Subset
		1
F3	8	5.3700
F2	8	5.4675
F1	8	5.4838
Sig.		.847

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean

Square(Error) = .171.

a. Uses Harmonic Mean Sample

Size = 8.000.

b. Alpha = .05.

Lampiran 18. Hasil uji stabilitas pH sebelum di *freeze thaw*

Replikasi	F1	F2	F3	K(-)
1	6.68	7.15	6.80	7.85
2	6.65	7.10	6.78	7.80
3	6.70	7.13	6.72	7.86
rata-rata	6.68	7.13	6.77	7.84
SD	0.03	0.03	0.04	0.03

Lampiran 19. Hasil uji stabilitas pH sesudah di *freeze thaw*

Replikasi	F1	F2	F3	K(-)
1	7.25	7.85	7.18	8.25
2	7.32	7.82	7.22	8.20
3	7.35	7.88	7.25	8.18
rata-rata	7.31	7.85	7.22	8.21
SD	0.05	0.03	0.04	0.04

Lampiran 20. Data statistik uji stabilitas *pH* gel ekstrak etanol kulit bawang merah

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
PH	18	7.1572	.39750	6.65	7.88

One-Sample Kolmogorov-Smirnov Test

		PH
N		18
Normal Parameters ^{a,b}	Mean	7.1572
	Std. Deviation	.39750
Most Extreme Differences	Absolute	.149
	Positive	.149
	Negative	-.119
Test Statistic		.149
Asymp. Sig. (2-tailed)		.200 ^{c,d}

- Test distribution is Normal.
- Calculated from data.
- Lilliefors Significance Correction.
- This is a lower bound of the true significance.

Univariate Analysis of Variance

Descriptive Statistics

Dependent Variable: PH

Formula	Waktu	Mean	Std. Deviation	N
F1	T0	6.6767	.02517	3
	T1	7.3067	.05132	3
	Total	6.9917	.34695	6
F2	T0	7.1267	.02517	3
	T1	7.8500	.03000	3
	Total	7.4883	.39696	6
F3	T0	6.7667	.04163	3
	T1	7.2167	.03512	3
	Total	6.9917	.24887	6
Total	T0	6.8567	.20803	9
	T1	7.4578	.29874	9
	Total	7.1572	.39750	18

Levene's Test of Equality of Error Variances^a

Dependent Variable: PH

F	df1	df2	Sig.
.687	5	12	.643

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula + Waktu + Formula

* Waktu

Tests of Between-Subjects Effects

Dependent Variable: PH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2.671 ^a	5	.534	412.629	.000
Intercept	922.065	1	922.065	712324.845	.000
Formula	.987	2	.493	381.133	.000
Waktu	1.626	1	1.626	1256.142	.000
Formula * Waktu	.058	2	.029	22.369	.000
Error	.016	12	.001		
Total	924.751	18			
Corrected Total	2.686	17			

a. R Squared = .994 (Adjusted R Squared = .992)

Post Hoc Tests

Multiple Comparisons

Dependent Variable: PH

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F1	F2	-.4967*	.02077	.000	-.5521	-.4412
	F3	.0000	.02077	1.000	-.0554	.0554
F2	F1	.4967*	.02077	.000	.4412	.5521
	F3	.4967*	.02077	.000	.4412	.5521
F3	F1	.0000	.02077	1.000	-.0554	.0554
	F2	-.4967*	.02077	.000	-.5521	-.4412

Based on observed means.

The error term is Mean Square(Error) = .001.

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

PH

Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
F1	6	6.9917	
F3	6	6.9917	
F2	6		7.4883
Sig.		1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .001.

a. Uses Harmonic Mean Sample Size = 6.000.

b. Alpha = .05.

Lampiran 21. Hasil uji stabilitas viskositas gel sebelum di *freeze thaw*

Replikasi	F1	F2	F3	K(-)
1	200.00	200.00	190.00	150.00
2	190.00	200.00	200.00	170.00
3	200.00	210.00	200.00	160.00
rata-rata	196.67	203.33	196.67	160.00
SD	5.77	5.77	5.77	10.00

Lampiran 22. Hasil uji stabilitas viskositas gel sesudah di *freeze thaw*

Replikasi	F1	F2	F3	K(-)
1	240.00	220.00	220.00	180.00
2	230.00	230.00	240.00	190.00
3	230.00	240.00	230.00	190.00
rata-rata	233.33	230.00	230.00	186.67
SD	5.77	10.00	10.00	5.77

**Lampiran 23. Data statistik uji stabilitas viskositas gel ekstrak etanol kulit
bawang merah**

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
viskositas	18	215.0000	17.90498	190.00	240.00

One-Sample Kolmogorov-Smirnov Test

		viskositas
N		18
Normal Parameters ^{a,b}	Mean	215.0000
	Std. Deviation	17.90498
Most Extreme Differences	Absolute	.243
	Positive	.243
	Negative	-.188
Test Statistic		.243
Asymp. Sig. (2-tailed)		.006 ^c

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

Friedman Test

Test Statistics^a

N	18
Chi-Square	30.545
df	2
Asymp. Sig.	.000

a. Friedman Test

Lampiran 24. Perhitungan nilai SPF

Kontrol Positif	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
1	290	0.7185	0.015	0.0107775
	295	0.782	0.0817	0.0638894
	300	0.767	0.2874	0.2204358
	305	0.756	0.3278	0.2478168
	310	0.7753	0.1864	0.14451592
	315	0.7351	0.0839	0.06167489
	320	0.7149	0.018	0.0128682
	FP			5
	Σ AbsxEEI			3.81

Kontrol Positif	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
2	290	0.7186	0.015	0.010779
	295	0.7807	0.0817	0.06378319
	300	0.7564	0.2874	0.21738936
	305	0.7533	0.3278	0.24693174
	310	0.7738	0.1864	0.14423632
	315	0.7337	0.0839	0.06155743
	320	0.7136	0.018	0.0128448
	FP			5
	Σ AbsxEEI			3.79

Kontrol Positif	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
3	290	0.7158	0.015	0.010737
	295	0.7808	0.0817	0.06379136
	300	0.7671	0.2874	0.22046454
	305	0.7555	0.3278	0.2476529
	310	0.7753	0.1864	0.14451592
	315	0.7353	0.0839	0.06169167
	320	0.7158	0.018	0.0128844
	FP			0.76173779
	Σ AbsxEEI			3.81

$$\text{Rata-rata} = (3.81+3.79+3.81)/3 = 3.80$$

Perhitungan CF :

$$CF = \frac{30}{3.80} = 7.9$$

Kontrol Negatif	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
1	290	0.3023	0.015	0.0045345
	295	0.2955	0.0817	0.02414235
	300	0.2896	0.2874	0.08323104
	305	0.2846	0.3278	0.09329188
	310	0.2787	0.1864	0.05194968
	315	0.2721	0.0839	0.02282919
	320	0.2661	0.018	0.0047898
			Jumlah	0.28476844
			CF	7.9
			Nilai SPF	2.25

Kontrol Negatif	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
2	290	0.307	0.015	0.004605
	295	0.2819	0.0817	0.02303123
	300	0.2639	0.2874	0.07584486
	305	0.2453	0.3278	0.08040934
	310	0.2264	0.1864	0.04220096
	315	0.2063	0.0839	0.01730857
	320	0.1843	0.018	0.0033174
			Jumlah	0.24671736
			CF	7.9
			Nilai SPF	1.95

Kontrol Negatif	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
3	290	0.3015	0.015	0.0045225
	295	0.3001	0.0817	0.02451817
	300	0.2952	0.2874	0.08484048
	305	0.2853	0.3278	0.09352134
	310	0.2726	0.1864	0.05081264
	315	0.2604	0.0839	0.02184756
	320	0.2535	0.018	0.004563
			Jumlah	0.28462569
			CF	7.9
			Nilai SPF	2.25

Kons. 0.05%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
1	290	0.3622	0.015	0.005433
	295	0.3368	0.0817	0.02751656
	300	0.3092	0.2874	0.08886408
	305	0.274	0.3278	0.0898172
	310	0.2417	0.1864	0.04505288
	315	0.2064	0.0839	0.01731696
	320	0.1752	0.018	0.0031536
	Jumlah			0.27715428
	FP			5
	CF			7.9
	SPF			10.95

Kons. 0.05%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
2	290	0.3594	0.015	0.005391
	295	0.3398	0.0817	0.02776166
	300	0.3202	0.2874	0.09202548
	305	0.2899	0.3278	0.09502922
	310	0.2539	0.1864	0.04732696
	315	0.2276	0.0839	0.01909564
	320	0.2066	0.018	0.0037188
	Jumlah			0.29034876
	FP			5
	CF			7.9
	SPF			11.47

Kons. 0.05%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
3	290	0.367	0.015	0.005505
	295	0.3372	0.0817	0.02754924
	300	0.3093	0.2874	0.08889282
	305	0.2745	0.3278	0.0899811
	310	0.2384	0.1864	0.04443776
	315	0.2071	0.0839	0.01737569
	320	0.1808	0.018	0.0032544
	Jumlah			0.27699601
	FP			5
	CF			7.9
	SPF			10.94

Kons. 0.1%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
1	290	0.5479	0.015	0.0082185
	295	0.5217	0.0817	0.04262289
	300	0.5031	0.2874	0.14459094
	305	0.5787	0.3278	0.18969786
	310	0.462	0.1864	0.0861168
	315	0.4425	0.0839	0.03712575
	320	0.4231	0.018	0.0076158
	Jumlah			0.51598854
	FP			5
	CF			7.9
	SPF			20.38

Kons. 0.1%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
2	290	0.5646	0.015	0.008469
	295	0.5336	0.0817	0.04359512
	300	0.5131	0.2874	0.14746494
	305	0.5926	0.3278	0.19425428
	310	0.478	0.1864	0.0890992
	315	0.4546	0.0839	0.03814094
	320	0.4376	0.018	0.0078768
	Jumlah			0.52890028
	FP			5
	CF			7.9
	SPF			20.89

Kons. 0.1%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
3	290	0.5825	0.015	0.0087375
	295	0.5599	0.0817	0.04574383
	300	0.5333	0.2874	0.15327042
	305	0.5153	0.3278	0.16891534
	310	0.4932	0.1864	0.09193248
	315	0.4722	0.0839	0.03961758
	320	0.4519	0.018	0.0081342
	Jumlah			0.51635135
	FP			5
	CF			7.9
	SPF			20.40

Kons. 0.2%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
1	290	0.819	0.015	0.012285
	295	0.8062	0.0817	0.06586654
	300	0.7706	0.2874	0.22147044
	305	0.8152	0.3278	0.26722256
	310	0.7539	0.1864	0.14052696
	315	0.6984	0.0839	0.05859576
	320	0.6555	0.018	0.011799
	Jumlah			0.77776626
	FP			5
	CF			7.9
	SPF			30.72

Kons. 0.2%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
2	290	0.8254	0.015	0.012381
	295	0.8095	0.0817	0.06613615
	300	0.783	0.2874	0.2250342
	305	0.8378	0.3278	0.27463084
	310	0.6968	0.1864	0.12988352
	315	0.6391	0.0839	0.05362049
	320	0.5996	0.018	0.0107928
	Jumlah			0.772479
	FP			5
	CF			7.9
	SPF			30.51

Kons. 0.2%	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
3	290	0.9015	0.015	0.0135225
	295	0.9045	0.0817	0.07389765
	300	0.8757	0.2874	0.25167618
	305	0.832	0.3278	0.2727296
	310	0.7835	0.1864	0.1460444
	315	0.6348	0.0839	0.05325972
	320	0.6039	0.018	0.0108702
	Jumlah			0.82200025
	FP			5
	CF			7.9
	SPF			32.47

Ekstrak etanol	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
1	290	0.875	0.015	0.013125
	295	0.8887	0.0817	0.07260679
	300	0.8744	0.2874	0.25130256
	305	0.8291	0.3278	0.27177898
	310	0.7567	0.1864	0.14104888
	315	0.6889	0.0839	0.05779871
	320	0.6484	0.018	0.0116712
	Jumlah			0.81933212
	FP			10
	CF			7.9
	SPF			64.73

Ekstrak etanol	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
2	290	0.9037	0.015	0.0135555
	295	0.8697	0.0817	0.07105449
	300	0.8694	0.2874	0.24986556
	305	0.7885	0.3278	0.2584703
	310	0.7567	0.1864	0.14104888
	315	0.7396	0.0839	0.06205244
	320	0.6391	0.018	0.0115038
	Jumlah			0.80755097
	FP			10
	CF			7.9
	SPF			63.80

Ekstrak etanol	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
3	290	0.9246	0.015	0.013869
	295	0.886	0.0817	0.0723862
	300	0.8541	0.2874	0.24546834
	305	0.8347	0.3278	0.27361466
	310	0.6993	0.1864	0.13034952
	315	0.6889	0.0839	0.05779871
	320	0.6484	0.018	0.0116712
	Jumlah			0.80515763
	FP			10
	CF			7.9
	SPF			63.61

Lampiran 25. Data uji statistik nilai SPF

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
SPF	18	27.8550	20.66487	1.95	64.73

One-Sample Kolmogorov-Smirnov Test

		SPF
N		18
Normal Parameters ^{a,b}	Mean	27.8550
	Std. Deviation	20.66487
Most Extreme Differences	Absolute	.143
	Positive	.143
	Negative	-.125
Test Statistic		.143
Asymp. Sig. (2-tailed)		.200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

Oneway

Test of Homogeneity of Variances

SPF

Levene Statistic	df1	df2	Sig.
7.338	5	12	.002

ANOVA

SPF

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6927.585	5	1385.517	4825.904	.000
Within Groups	3.445	12	.287		
Total	6931.030	17			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: SPF

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F1	F2	-9.43667 [*]	.43749	.000	-10.9062	-7.9672
	F3	-20.11333 [*]	.43749	.000	-21.5828	-18.6438
	K(-)	8.97000 [*]	.43749	.000	7.5005	10.4395
	K(+)	-18.88000 [*]	.43749	.000	-20.3495	-17.4105
	Ekstrak etanol	-52.92667 [*]	.43749	.000	-54.3962	-51.4572
F2	F1	9.43667 [*]	.43749	.000	7.9672	10.9062
	F3	-10.67667 [*]	.43749	.000	-12.1462	-9.2072
	K(-)	18.40667 [*]	.43749	.000	16.9372	19.8762
	K(+)	-9.44333 [*]	.43749	.000	-10.9128	-7.9738
	Ekstrak etanol	-43.49000 [*]	.43749	.000	-44.9595	-42.0205
F3	F1	20.11333 [*]	.43749	.000	18.6438	21.5828
	F2	10.67667 [*]	.43749	.000	9.2072	12.1462
	K(-)	29.08333 [*]	.43749	.000	27.6138	30.5528
	K(+)	1.23333	.43749	.121	-.2362	2.7028
	Ekstrak etanol	-32.81333 [*]	.43749	.000	-34.2828	-31.3438
K(-)	F1	-8.97000 [*]	.43749	.000	-10.4395	-7.5005
	F2	-18.40667 [*]	.43749	.000	-19.8762	-16.9372
	F3	-29.08333 [*]	.43749	.000	-30.5528	-27.6138
	K(+)	-27.85000 [*]	.43749	.000	-29.3195	-26.3805
	Ekstrak etanol	-61.89667 [*]	.43749	.000	-63.3662	-60.4272
K(+)	F1	18.88000 [*]	.43749	.000	17.4105	20.3495
	F2	9.44333 [*]	.43749	.000	7.9738	10.9128
	F3	-1.23333	.43749	.121	-2.7028	.2362
	K(-)	27.85000 [*]	.43749	.000	26.3805	29.3195
	Ekstrak etanol	-34.04667 [*]	.43749	.000	-35.5162	-32.5772
Ekstrak etanol	F1	52.92667 [*]	.43749	.000	51.4572	54.3962
	F2	43.49000 [*]	.43749	.000	42.0205	44.9595
	F3	32.81333 [*]	.43749	.000	31.3438	34.2828
	K(-)	61.89667 [*]	.43749	.000	60.4272	63.3662
	K(+)	34.04667 [*]	.43749	.000	32.5772	35.5162

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

Homogeneous Subsets

SPF

Tukey HSD^a

Formula	N	Subset for alpha = 0.05				
		1	2	3	4	5
K(-)	3	2.1500				
F1	3		11.1200			
F2	3			20.5567		
K(+)	3				30.0000	
F3	3				31.2333	
Ekstrak etanol	3					64.0467
Sig.		1.000	1.000	1.000	.121	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 26. Perhitungan luas eritema

Perlakuan	Luas eritema (cm)	Rata-rata	SD
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	0.2	0.17	0.06
	0.2		
	0.1		
6	0.4	0.34	0.05
	0.3		
	0.3		
	0.4		
	0.3		

Lampiran 27. Simplisia kulit bawang merah dan proses maserasi

Simplisia kulit bawang merah



serbuk kulit bawang merah



Maserasi



ekstrak kulit bawang merah



Susut pengeringan

Lampiran 28. Gambar identifikasi kandungan kimia

Flavonoid



Tanin



Alkaloid



Saponin



Steroid

Lampiran 29. Gambar pengujian mutu fisik gel ekstrak kulit bawang merah



Homogenitas



pH



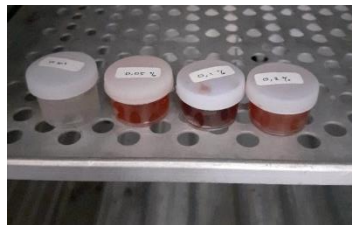
viskositas



daya lekat



Daya sebar



Stabilitas *freeze thaw*



Gel ekstrak etanol kulit bawang merah

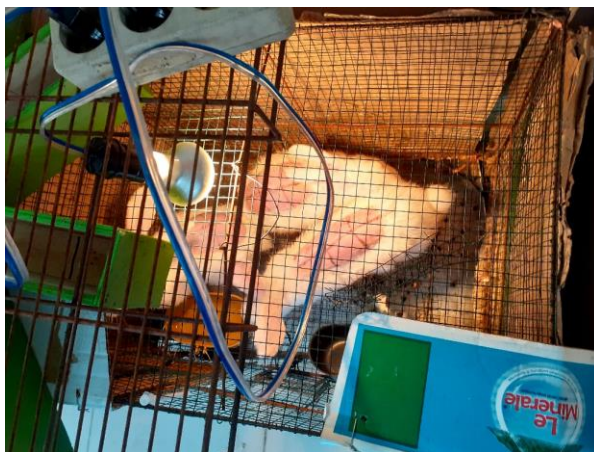
Lampiran 30. Pengujian aktivitas tabir surya secara *in vivo*



Pencukuran bulu kelinci



pengolesan sediaan



Penyinaran



pengamatan eritema