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Lampiran 1. Hasil determinasi tanaman stevia



**UNIVERSITAS
SETIA BUDI**

UPT-LABORATORIUM

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Nomor : 126/DET/UPT-LAB/02.02.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Meiga Apriliani Sandadua
NIM : 23175266A
Program Studi : S1 Farmasi, Universitas Setia Budi, Surakarta
Nama Sampel : *Stevia rebaudiana* Bertonii M.

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida/Dicotyledoneae
Ordo : Asterales
Famili : Asteraceae
Genus : Stevia
Species : *Stevia rebaudiana* Bertoni

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 – 27b – 799a. Familia 166. Asteraceae. 1b – 3a – 4b – 5b – 23b – 28a – 29b. 11. *Stevia
rebaudiana* Bertoni.

Lampiran 2. Surat keterangan hewan uji

KEPK-RSDM

**HEALTH RESEARCH ETHICS COMMITTEE
KOMISI ETIK PENELITIAN KESEHATAN**

Dr. Moewardi General Hospital
RSUD Dr. Moewardi

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 162 / II / HREC / 2021

The Health Research Ethics Committee Dr. Moewardi
Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi

after reviewing the proposal design, herewith to certify
setelah menilai rancangan penelitian yang diusulkan, dengan ini menyatakan

That the research proposal with topic :
Bahwa usulan penelitian dengan judul

Formulasi Dan Uji Aktivitas Sediaan Gel Tabir Surya Ekstrak Daun Stevia (Stevia rebaudiana Bertoni M.)

Principal investigator : Meiga Apriliani Sandadua
Peneliti Utama 23175266A

Location of research : Lab Universitas Setia Budi
Lokasi Tempat Penelitian

Is ethically approved
Dinyatakan layak etik

Issued on : 17 Februari 2021

Chairman
Ketua
[Signature]
Dr. Wahyu Dwi Atmoko, Sp.F
19770224 201001 1 004

<https://komisi-etika-rsmoewardi.com/kepik/ethicalclearance/23175266A-0003>

"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 : Meiga Apriliani Sandadua
Nim : 23175266A
Institusi : Universitas Setia Budi Surakarta

Merupakan hewan uji dengan spesifikasi sebagai berikut:

Jenis hewan : Kelinci New Zealand
Umur : 2-3 bulan
Jenis kelamin : Jantan
Jumlah : 6 ekor
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, 22 Maret 2021

Hormat kami



Sigit Pramono
"ABIMANYU FARM"

Lampiran 3. Perhitungan rendemen bobot kering terhadap bobot basah daun stevia.

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

$$\% \text{ rendemen} : \frac{1.250g}{3.000 g} \times 100 \%$$

$$\% \text{ rendemen} : 41,66 \%$$

Lampiran 4. Perhitungan rendemen serbuk daun stevia

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

$$\% \text{ rendemen} : \frac{556 g}{1.250 g} \times 100 \%$$

$$\% \text{ rendemen} : 44,48 \%$$

Lampiran 5. Perhitungan rendemen ekstrak etanol daun stevia

Bobot botol kosong: 138,400 g

Botol + ekstrak: 244 g

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

$$\% \text{ rendemen} : \frac{105,6 g}{500 g} \times 100 \%$$

$$\% \text{ rendemen} : 21,12\%$$

Lampiran 6. Hasil uji pH hari ke 1

Replikasi	F1	F2	F3	K (-)
1	6,89	6,94	6,92	6,88
2	6,90	6,87	6,95	6,90
3	6,85	6,88	6,90	6,83
Rata-rata	6,97	6,96	6,89	6,87
SD	0,03	0,04	0,03	0,04

Lampiran 7. Hasil uji pH hari ke 21

Replikasi	F1	F2	F3	K (-)
1	6,85	6,90	6,94	6,84
2	6,82	6,85	6,88	6,88
3	6,87	6,85	6,90	6,80
Rata-rata	6,85	6,87	6,91	6,84
SD	0,03	0,03	0,03	0,04

Lampiran 8. Data uji statistik uji pH formulasi gel ekstrak etanol daun stevia

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
pH	24	6.80	6.95	6.8788	.03826
Valid N (listwise)	24				

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH	.123	24	.200 [*]	.974	24	.760

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

a. Lilliefors Significance Correction

Between-Subjects Factors

	Value Label	N
formula	1.00 f1	6
	2.00 f2	6
	3.00 f3	6
	4.00 f4	6
hari	1.00 hari1	12
	2.00 hari21	12

Descriptive Statistics

Dependent Variable: pH

formula	hari	Mean	Std. Deviation	N
f1	hari1	6.8800	.02646	3
	hari21	6.8467	.02517	3
	Total	6.8633	.02944	6
f2	hari1	6.8967	.03786	3
	hari21	6.8667	.02887	3
	Total	6.8817	.03430	6
f3	hari1	6.9233	.02517	3
	hari21	6.9067	.03055	3
	Total	6.9150	.02665	6
f4	hari1	6.8700	.03606	3
	hari21	6.8400	.04000	3
	Total	6.8550	.03782	6
Total	hari1	6.8925	.03441	12
	hari21	6.8650	.03826	12
Total	Total	6.8788	.03826	24

Levene's Test of Equality of Error Variances^a

Dependent Variable: pH

F	df1	df2	Sig.
.261	7	16	.960

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: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.018 ^a	7	.003	2.483	.063
Intercept	1135.613	1	1135.613	1126227.607	.000
formula	.013	3	.004	4.213	.022
hari	.005	1	.005	4.500	.050
formula * hari	.000	3	8.194E-005	.081	.969
Error	.016	16	.001		
Total	1135.647	24			
Corrected Total	.034	23			

a. R Squared = .521 (Adjusted R Squared = .311)

Homogeneous Subsets

pH

Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
F4	6	6.8550	
F1	6	6.8633	6.8633
F2	6	6.8817	6.8817
F3	6		6.9150
Sig.		.486	.054

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 9. Hasil uji viskositas hari ke 1

Replikasi	F1	F2	F3	K (-)
1	270,00	250,00	250,00	300,00
2	240,00	250,00	240,00	310,00
3	250,00	240,00	260,00	290,00
Rata-rata	253,33	246,67	250,00	300,00
SD	15,28	5,77	10,00	10,00

Lampiran 10. Hasil uji viskositas hari ke 21

Replikasi	F1	F2	F3	K (-)
1	250,00	240,00	220,00	290,00
2	230,00	260,00	240,00	300,00
3	240,00	250,00	250,00	300,00
Rata-rata	240,00	250,00	236,67	296,67
SD	10,00	10,00	15,28	5,77

Lampiran 11. Data uji statistik viskositas gel ekstrak etanol daun stevia

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Visikositas	24	220.00	310.00	259.1667	25.35259
Formula	24	1.00	4.00	2.5000	1.14208
Hari	24	1.00	2.00	1.5000	.51075
Valid N (listwise)	24				

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Visikositas	.125	24	.200*	.960	24	.431

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

a. Lilliefors Significance Correction

Between-Subjects Factors

	Value Label	N
Formula	1.00 F1	6
	2.00 F2	6
	3.00 F3	6
	4.00 F4	6
Hari	1.00 hari 1	12
	2.00 hari 21	12

Descriptive Statistics

Dependent Variable: Visikositas

Formula	Hari	Mean	Std. Deviation	N
F1	hari 1	253.3333	15.27525	3
	hari 21	240.0000	10.00000	3
	Total	246.6667	13.66260	6
F2	hari 1	246.6667	5.77350	3
	hari 21	250.0000	10.00000	3
	Total	248.3333	7.52773	6
F3	hari 1	250.0000	10.00000	3
	hari 21	236.6667	15.27525	3
	Total	243.3333	13.66260	6
F4	hari 1	300.0000	10.00000	3
	hari 21	296.6667	5.77350	3
	Total	298.3333	7.52773	6
Total	hari 1	262.5000	24.54125	12
	hari 21	255.8333	26.78478	12
	Total	259.1667	25.35259	24

Levene's Test of Equality of Error Variances^a

Dependent Variable: Visikositas

F	df1	df2	Sig.
.679	7	16	.688

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: Visikositas

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	12916.667 ^a	7	1845.238	15.816	.000
Intercept	1612016.667	1	1612016.667	13817.286	.000
Formula	12350.000	3	4116.667	35.286	.000
Hari	266.667	1	266.667	2.286	.150
Formula * Hari	300.000	3	100.000	.857	.483
Error	1866.667	16	116.667		
Total	1626800.000	24			
Corrected Total	14783.333	23			

a. R Squared = .874 (Adjusted R Squared = .818)

Homogeneous Subsets

Visikositas

Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
F3	6	243.3333	
F1	6	246.6667	
F2	6	248.3333	
F4	6		298.3333
Sig.		.853	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 116,667.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 12. Hasil uji daya lekat gel hari ke 1

Replikasi	F1	F2	F3	K (-)
1	2,01	2,14	2,20	2,12
2	2,12	2,09	2,11	2,16
3	2,08	2,05	2,10	2,20
Rata-rata	2,07	2,09	2,14	2,16
SD	0,06	0,05	0,06	0,04

Lampiran 13. Hasil uji daya lekat gel hari ke 21

Replikasi	F1	F2	F3	K (-)
1	2,08	2,10	2,21	2,18
2	2,05	2,15	2,18	2,30
3	2,12	2,2	2,27	2,28
Rata-rata	2,08	2,15	2,22	2,25
SD	0,04	0,05	0,05	0,06

Lampiran 14. Data uji statistik daya lekat gel ekstrak etanol daun stevia

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Dayalekat	24	2.01	2.30	2.1458	.07483
Formula	24	1.00	4.00	2.5000	1.14208
Hari	24	1.00	2.00	1.5000	.51075
Valid N (listwise)	24				

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Dayalekat	.145	24	.200*	.931	24	.102

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

a. Lilliefors Significance Correction

Between-Subjects Factors

	Value Label	N	
Formula	1.00	F1	6
	2.00	F2	6
	3.00	F3	6
	4.00	F4	6
Hari	1.00	Hari1	12
	2.00	Hari21	12

Descriptive Statistics

Dependent Variable: Dayalekat

Formula	Hari	Mean	Std. Deviation	N
F1	Hari1	2.0700	.05568	3
	Hari21	2.0833	.03512	3
	Total	2.0767	.04227	6
F2	Hari1	2.0933	.04509	3
	Hari21	2.1500	.05000	3
	Total	2.1217	.05269	6
F3	Hari1	2.1367	.05508	3
	Hari21	2.2200	.04583	3
	Total	2.1783	.06432	6
F4	Hari1	2.1600	.04000	3
	Hari21	2.2533	.06429	3
	Total	2.2067	.07005	6
Total	Hari1	2.1150	.05600	12
	Hari21	2.1767	.08060	12
Total	Total	2.1458	.07483	24

Levene's Test of Equality of Error Variances^a

Dependent Variable: Dayalekat

F	df1	df2	Sig.
.374	7	16	.904

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: Dayalekat

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.089 ^a	7	.013	5.173	.003
Intercept	110.510	1	110.510	44801.520	.000
Formula	.061	3	.020	8.209	.002
Hari	.023	1	.023	9.250	.008
Formula * Hari	.006	3	.002	.777	.524
Error	.039	16	.002		
Total	110.639	24			
Corrected Total	.129	23			

a. R Squared = .694 (Adjusted R Squared = .559)

Homogeneous Subsets

Dayalekat

Tukey HSD^{a,b}

Formula	N	Subset		
		1	2	3
F1	6	2.0767		
F2	6	2.1217	2.1217	
F3	6		2.1783	2.1783
F4	6			2.2067
Sig.		.422	.237	.758

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .002.

a. Uses Harmonic Mean Sample Size = 6.000.

b. Alpha = .05.

Lampiran 15. Hasil uji daya sebar hari ke 1

Formula	Beban (g)	Diameter (cm)	Rata-rata (cm)	SD	Rata-rata±SD
K(-)	50	5,0	4,98	0,10	4,98±0,10
		4,9			
		5,1			
	100	5,5	5,44	0,06	5,44±0,06
		5,4			
		5,5			
	150	6	5,89	0,05	5,89±0,05
		5,9			
		5,8			
	200	6,2	6,29	0,10	6,29±0,10
		6,4			
		6,3			
F1	50	5,0	4,93	0,08	4,93±0,08
		4,9			
		4,9			
	100	5,5	5,47	0,06	5,47±0,06
		5,5			
		5,4			
	150	5,7	5,77	0,09	5,77±0,09
		5,7			
		5,9			
	200	6,2	6,23	0,09	6,23±0,09
		6,2			
		6,3			

Formula	Beban (g)	Diameter (cm)	Rata-rata (cm)	SD	Rata-rata±SD
F2	50	5,0	5,03	0,07	5,03±0,07
		5,0			
		5,1			
	100	5,4	5,47	0,04	5,47±0,04
		5,5			
		5,5			
	150	5,8	5,82	0,07	5,82±0,07
		5,9			
		5,8			
	200	6,1	6,22	0,13	6,22±0,13
		6,2			
		6,4			
F3	50	4,9	4,97	0,12	4,97±0,12
		5,1			
		4,9			
	100	5,4	5,42	0,05	5,42±0,05
		5,5			
		5,4			
	150	5,9	5,91	0,05	5,91±0,05
		5,9			
		6,0			
	200	6,4	6,44	0,11	6,44±0,11
		6,6			
		6,4			

Lampiran 16. Hasil uji daya sebar hari ke 21

Formula	Beban (g)	Diameter (cm)	Rata-rata (cm)	SD	Rata-rata±SD
K(-)	50	5,1	5,00	0,10	4,98 ±0,10
		4,9			
		5,1			
	100	5,5	5,44	0,06	5,44±0,06
		5,4			
		5,5			
	150	6	5,90	0,06	5,90±0,06
		5,9			
		5,8			
	200	6,3	6,30	0,09	6,30±0,09
		6,4			
		6,2			
F1	50	5,0	4,96	0,08	4,96±0,08
		4,9			
		5,0			
	100	5,6	5,49	0,09	5,49±0,09
		5,5			
		5,4			
	150	5,8	5,79	0,09	5,79±0,09
		5,7			
		5,9			
	200	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	50	5,0	5,04	0,05	5,04±0,05
		5,0			
		5,1			
	100	5,4	5,50	0,07	5,50±0,07
		5,6			
		5,5			
	150	5,8	5,83	0,07	5,83±0,07
		5,9			
		5,8			
	200	6,3	6,27	0,10	6,27±0,10
		6,2			
		6,4			
F3	50	5,0	4,98	0,12	4,98±0,12
		5,1			
		4,9			
	100	5,4	5,44	0,02	5,44±0,02
		5,5			
		5,4			
	150	6,0	5,97	0,07	5,97±0,07
		5,9			
		6,0			
	200	6,4	6,46	0,10	6,46±0,10
		6,6			
		6,4			

Lampiran 17. Data statistik uji daya sebar formulasi gel ekstrak etanol daun stevia.

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
DayaSebar	32	4.93	6.46	5.6538	.50030
Valid N (listwise)	32				

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for DayaSebar	.137	32	.131	.911	32	.012

a. Lilliefors Significance Correction

Levene's Test of Equality of Error Variances^a

Dependent Variable: DayaSebar

F	df1	df2	Sig.
.114	7	24	.997

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

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

Homogeneous Subsets

DayaSebar

Tukey HSD^{a,b}

Formula	N	Subset
		1
F1	8	5.6138
F2	8	5.6475
Kontrolnegatif	8	5.6550
F3	8	5.6988
Sig.		.990

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .322.

a. Uses Harmonic Mean Sample Size = 8.000.

b. Alpha = .05.

Friedman Test

Ranks

	Mean Rank
DayaSebar	3.00
Formula	1.75
Hari	1.25

Test Statistics^a

N	32
Chi-Square	55.467
df	2
Asymp. Sig.	.000

a. Friedman Test

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

Replikasi	F1	F2	F3	K (-)
1	6,89	6,94	6,92	6,88
2	6,90	6,87	6,95	6,90
3	6,85	6,88	6,90	6,83
Rata-rata	6,97	6,96	6,89	6,87
SD	0,03	0,04	0,03	0,04

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

Replikasi	F1	F2	F3	K (-)
1	6,85	6,90	6,89	6,86
2	6,79	6,92	6,87	6,91
3	6,89	6,85	6,85	6,80
Rata-rata	6,84	6,89	6,87	6,86
SD	0,05	0,04	0,02	0,06

Lampiran 20. Data statistik uji stabilitas pH gel ekstrak etanol daun stevi

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
pH	24	6.79	6.95	6.8788	.03938
Formula	0				
Hari	0				
Valid N (listwise)	0				

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for pH	.084	24	.200*	.969	24	.633

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

a. Lilliefors Significance Correction

Between-Subjects Factors

	Value Label	N
Formula	1.00 F1	6
	2.00 F2	6
	3.00 F3	6
	4.00 F4	6
Hari	1.00 Sebelum	12
	2.00 Sesudah	12

Descriptive Statistics

Dependent Variable: pH

Formula	Hari	Mean	Std. Deviation	N
F1	Sebelum	6.8800	.02646	3
	Sesudah	6.8433	.05033	3
	Total	6.8617	.04119	6
F2	Sebelum	6.8967	.03786	3
	Sesudah	6.8900	.03606	3
	Total	6.8933	.03327	6
F3	Sebelum	6.9233	.02517	3
	Sesudah	6.8700	.02000	3
	Total	6.8967	.03559	6
F4	Sebelum	6.8700	.03606	3
	Sesudah	6.8567	.05508	3
	Total	6.8633	.04227	6
Total	Sebelum	6.8925	.03441	12
	Sesudah	6.8650	.04056	12
Total	Total	6.8788	.03938	24

Levene's Test of Equality of Error Variances^a

Dependent Variable: pH

F	df1	df2	Sig.
.671	7	16	.694

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: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.013 ^a	7	.002	1.311	.307
Intercept	1135.613	1	1135.613	801609.062	.000
Formula	.006	3	.002	1.501	.252
Hari	.005	1	.005	3.203	.092
Formula * Hari	.002	3	.001	.489	.695
Error	.023	16	.001		
Total	1135.649	24			
Corrected Total	.036	23			

a. R Squared = .364 (Adjusted R Squared = .086)

Homogeneous Subsets

pH

Tukey HSD^{a,b}

Formula	N	Subset
		1
F1	6	6.8617
F4	6	6.8633
F2	6	6.8933
F3	6	6.8967
Sig.		.401

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	270,00	250,00	250,00	300,00
2	240,00	250,00	240,00	310,00
3	250,00	240,00	260,00	290,00
Rata-rata	253,33	246,67	250,00	300,00
SD	15,28	5,77	10,00	10,00

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

Replikasi	F1	F2	F3	K (-)
1	260,00	240,00	260,00	290,00
2	250,00	250,00	260,00	300,00
3	2,70,00	270,00	240,00	320,00
Rata-rata	255,00	253,33	253,33	303,33
SD	7,07	15,28	11,55	15,28

Lampiran 23. Data statistik uji stabilitas viskositas gel ekstrak etanol daun stevia

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Viskositas	24	240.00	310.00	264.1667	22.44155
Valid N (listwise)	24				

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for Viskositas	.112	24	.200*	.948	24	.248

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

a. Lilliefors Significance Correction

Between-Subjects Factors

	Value Label	N
Formula	1.00 F1	6
	2.00 F2	6
	3.00 F3	6
	4.00 F4	6
Hari	1.00 Sebelum	12
	2.00 Sesudah	12

Descriptive Statistics

Dependent Variable: Viskositas

Formula	Hari	Mean	Std. Deviation	N
F1	Sebelum	253.3333	15.27525	3
	Sesudah	260.0000	10.00000	3
	Total	256.6667	12.11060	6
F2	Sebelum	246.6667	5.77350	3
	Sesudah	253.3333	15.27525	3
	Total	250.0000	10.95445	6
F3	Sebelum	250.0000	10.00000	3
	Sesudah	253.3333	11.54701	3
	Total	251.6667	9.83192	6
F4	Sebelum	300.0000	10.00000	3
	Sesudah	296.6667	5.77350	3
	Total	298.3333	7.52773	6
Total	Sebelum	262.5000	24.54125	12
	Sesudah	265.8333	21.08784	12
Total	Total	264.1667	22.44155	24

Levene's Test of Equality of Error Variances^a

Dependent Variable: Viskositas

F	df1	df2	Sig.
.765	7	16	.624

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: Viskositas

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	9650.000 ^a	7	1378.571	11.409	.000
Intercept	1674816.667	1	1674816.667	13860.552	.000
Formula	9483.333	3	3161.111	26.161	.000
Hari	66.667	1	66.667	.552	.468
Formula * Hari	100.000	3	33.333	.276	.842
Error	1933.333	16	120.833		
Total	1686400.000	24			
Corrected Total	11583.333	23			

a. R Squared = .833 (Adjusted R Squared = .760)

Homogeneous Subsets

Viskositas

Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
F2	6	250.0000	
F3	6	251.6667	
F1	6	256.6667	
F4	6		298.3333
Sig.		.723	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 120.833.

a. Uses Harmonic Mean Sample Size = 6.000.

b. Alpha = .05.

Lampiran 24. Perhitungan nilai SPF

Formula	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
Kontrol positif	290	0,4282	0,015	0,0064
	295	0,4295	0,0817	0,0351
	300	0,4262	0,2874	0,1225
	305	0,4663	0,3278	0,1529
	310	0,5470	0,1864	0,1020
	315	0,5910	0,0839	0,0495
	320	0,5619	0,018	0,0101
			Jumlah	0,4784
			CF	10
			Faktor Pengenceran	5
			SPF	23,92

Formula	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
Kontrol positif	290	0,4309	0,015	0,0065
	295	0,43	0,0817	0,0351
	300	0,4269	0,2874	0,1227
	305	0,4606	0,3278	0,1510
	310	0,5497	0,1864	0,1025
	315	0,5901	0,0839	0,0494
	320	0,5591	0,018	0,0101
			Jumlah	0,4772
			CF	10
			Faktor Pengenceran	5
			SPF	23,86

Formula	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
Kontrol positif	290	0,4276	0,015	0,0064
	295	0,4352	0,0817	0,0356
	300	0,4262	0,2874	0,1225
	305	0,4642	0,3278	0,1522
	310	0,55	0,1864	0,1025
	315	0,5935	0,0839	0,0497
	320	0,5601	0,018	0,0101
			Jumlah	0,4789
			CF	10
			Faktor Pengenceran	5
			SPF	23,95

Ekstrak etanol	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
1	290	0,3920	0,015	0,0059
	295	0,4081	0,0817	0,0333
	300	0,4095	0,2874	0,1178
	305	0,4079	0,3278	0,1337
	310	0,4049	0,1864	0,0757
	315	0,3766	0,0839	0,0316
	320	0,2231	0,018	0,0059
			Jumlah	0,4016
			CF	10
			Faktor Pengenceran	10
			SPF	40,16

Ekstrak etanol	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
2	290	0,3920	0,015	0,0059
	295	0,4081	0,0817	0,0333
	300	0,41	0,2874	0,1178
	305	0,408	0,3278	0,1337
	310	0,4059	0,1864	0,0757
	315	0,377	0,0839	0,0316
	320	0,3305	0,018	0,0059
			Jumlah	0,4040
			CF	10
			Faktor Pengenceran	10
			SPF	40,40

Ekstrak etanol	Panjang gelombang	Absorbansi	EE X I	ABS X EE X I
3	290	0,3925	0,015	0,0059
	295	0,4085	0,0817	0,0334
	300	0,4105	0,2874	0,1180
	305	0,4087	0,3278	0,1340
	310	0,4057	0,1864	0,0756
	315	0,377	0,0839	0,0316
	320	0,331	0,018	0,0060
			Jumlah	0,4043
			CF	10
			Faktor Pengenceran	10
			SPF	40,43

$$\text{Rata-rata nilai SPF ekstrak etanol} = \frac{\text{nilai SPF replikasi 1} + \text{replikasi 2} + \text{replikasi 3}}{3}$$

$$= \frac{40,16 + 40,40 + 40,43}{3} = 40,3314$$

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
Kontrol negatif (basis)	290	0,2735	0,015	10	0,0041
	295	0,2499	0,0817	10	0,0204
	300	0,25	0,2874	10	0,0719
	305	0,2467	0,3278	10	0,0809
	310	0,2352	0,1864	10	0,0438
	315	0,2113	0,0839	10	0,0177
	320	0,1842	0,018	10	0,0033
				Nilai SPF	2,42

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
Kontrol negatif (basis)	290	0,2754	0,015	10	0,0041
	295	0,2522	0,0817	10	0,0206
	300	0,2522	0,2874	10	0,0725
	305	0,249	0,3278	10	0,0816
	310	0,2373	0,1864	10	0,0442
	315	0,2122	0,0839	10	0,0178
	320	0,1846	0,018	10	0,0033
				Nilai SPF	2,44

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
Kontrol negatif (basis)	290	0,2778	0,015	10	0,0042
	295	0,2548	0,0817	10	0,0208
	300	0,2558	0,2874	10	0,0735
	305	0,2525	0,3278	10	0,0828
	310	0,24	0,1864	10	0,0447
	315	0,2145	0,0839	10	0,0180
	320	0,1863	0,018	10	0,0034
				Nilai SPF	2,47

$$\text{Rata-rata nilai SPF basis} = \frac{\text{nilai SPF replikasi 1} + \text{replikasi 2} + \text{replikasi 3}}{3}$$

$$= \frac{2,42 + 2,44 + 2,47}{3} = 2,45$$

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
1	290	0,4248	0,015	10	0,0064
	295	0,4237	0,0817	10	0,0346
	300	0,4236	0,2874	10	0,1217
	305	0,4227	0,3278	10	0,1386
	310	0,4271	0,1864	10	0,0796
	315	0,4423	0,0839	10	0,0370
	320	0,4632	0,018	10	0,0083
Jumlah					0,4263
FP					5
Nilai SPF					21,31

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
1	290	0,4262	0,015	10	0,0064
	295	0,4251	0,0817	10	0,0347
	300	0,4249	0,2874	10	0,1221
	305	0,4232	0,3278	10	0,1387
	310	0,4285	0,1864	10	0,0799
	315	0,4433	0,0839	10	0,0371
	320	0,4646	0,018	10	0,0084
Jumlah					0,4273
FP					5
Nilai SPF					21,37

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
1	290	0,4259	0,015	10	0,0064
	295	0,4252	0,0817	10	0,0347
	300	0,4246	0,2874	10	0,1220
	305	0,4235	0,3278	10	0,1388
	310	0,4283	0,1864	10	0,0798
	315	0,4435	0,0839	10	0,0371
	320	0,4642	0,018	10	0,0084
Jumlah					0,4273
FP					5
Nilai SPF					21,36

$$\begin{aligned} \text{Rata-rata nilai SPF Formula 1} &= \frac{\text{nilai SPF replikasi 1} + \text{replikasi 2} + \text{replikasi 3}}{3} \\ &= \frac{21,31 + 21,37 + 21,36}{3} = 21,35 \end{aligned}$$

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
2	290	0,6584	0,015	10	0,0099
	295	0,6068	0,0817	10	0,0496
	300	0,5615	0,2874	10	0,1614
	305	0,518	0,3278	10	0,1698
	310	0,4859	0,1864	10	0,0906
	315	0,4633	0,0839	10	0,0388
	320	0,4477	0,018	10	0,0081
Jumlah					0,5280
FP					5
Nilai SPF					26,40

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
2	290	0,6577	0,015	10	0,0099
	295	0,6065	0,0817	10	0,0496
	300	0,5599	0,2874	10	0,1609
	305	0,5182	0,3278	10	0,1699
	310	0,4859	0,1864	10	0,0906
	315	0,463	0,0839	10	0,0388
	320	0,4475	0,018	10	0,0081
Jumlah					0,5276
FP					5
Nilai SPF					26,38

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
2	290	0,6569	0,015	10	0,0099
	295	0,6063	0,0817	10	0,0495
	300	0,56	0,2874	10	0,1609
	305	0,5178	0,3278	10	0,1697
	310	0,4858	0,1864	10	0,0906
	315	0,4626	0,0839	10	0,0387
	320	0,4474	0,018	10	0,0081
Jumlah					0,5274
FP					5
Nilai SPF					26,37

$$\begin{aligned} \text{Rata-rata nilai SPF Formula 2} &= \frac{\text{nilai SPF replikasi 1} + \text{replikasi 2} + \text{replikasi 3}}{3} \\ &= \frac{26,49 + 26,38 + 26,37}{3} = 26,38 \end{aligned}$$

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
3	290	0,7871	0,015	10	0,0118
	295	0,6543	0,0817	10	0,0535
	300	0,6265	0,2874	10	0,1801
	305	0,6093	0,3278	10	0,1997
	310	0,5894	0,1864	10	0,1099
	315	0,5729	0,0839	10	0,0480
	320	0,5553	0,018	10	0,0100
Jumlah					0,6129
FP					5
Nilai SPF					30,64

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
3	290	0,7884	0,015	10	0,0118
	295	0,6546	0,0817	10	0,0535
	300	0,6274	0,2874	10	0,1803
	305	0,6097	0,3278	10	0,1999
	310	0,5892	0,1864	10	0,1098
	315	0,5725	0,0839	10	0,0479
	320	0,5536	0,018	10	0,0100
Jumlah					0,6132
FP					5
Nilai SPF					30,66

Formula	Panjang gelombang	Absorbansi	EE X I	CF	Hasil
3	290	0,7884	0,015	10	0,0118
	295	0,6542	0,0817	10	0,0534
	300	0,6271	0,2874	10	0,1802
	305	0,6095	0,3278	10	0,1998
	310	0,5897	0,1864	10	0,1099
	315	0,572	0,0839	10	0,0479
	320	0,5540	0,018	10	0,0100
Jumlah					0,6131
FP					5
Nilai SPF					30,65

$$\begin{aligned} \text{Rata-rata nilai SPF Formula 3} &= \frac{\text{nilai SPF replikasi 1} + \text{replikasi 2} + \text{replikasi 3}}{3} \\ &= \frac{30,64 + 30,66 + 30,65}{3} = 30,65 \end{aligned}$$

Lampiran 25. Data uji statistik nilai SPF

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
spf	18	2.42	40.43	24.1772	11.79336
Valid N (listwise)	18				

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Standardized Residual for spf	18	100.0%	0	0.0%	18	100.0%

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized Residual for spf	.183	18	.116	.863	18	.014

a. Lilliefors Significance Correction

Levene's Test of Equality of Error Variances^a

Dependent Variable: spf

F	df1	df2	Sig.
8.276	5	12	.001

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

a. Design: Intercept + formula

ANOVA

spf

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2364.364	5	472.873	109124.500	.000
Within Groups	.052	12	.004		
Total	2364.416	17			

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
produk	ekstrak	-16.42000 [*]	.05375	.000	-16.6005	-16.2395
	F1	21.46667 [*]	.05375	.000	21.2861	21.6472
	F2	2.56333 [*]	.05375	.000	2.3828	2.7439
	F3	-2.47333 [*]	.05375	.000	-2.6539	-2.2928
ekstrak	produk	16.42000 [*]	.05375	.000	16.2395	16.6005
	F1	37.88667 [*]	.05375	.000	37.7061	38.0672
	F2	18.98333 [*]	.05375	.000	18.8028	19.1639
	F3	13.94667 [*]	.05375	.000	13.7661	14.1272
F1	F4	9.68000 [*]	.05375	.000	9.4995	9.8605
	produk	-21.46667 [*]	.05375	.000	-21.6472	-21.2861
	ekstrak	-37.88667 [*]	.05375	.000	-38.0672	-37.7061
	F2	-18.90333 [*]	.05375	.000	-19.0839	-18.7228
F2	F3	-23.94000 [*]	.05375	.000	-24.1205	-23.7595
	F4	-28.20667 [*]	.05375	.000	-28.3872	-28.0261
	produk	-2.56333 [*]	.05375	.000	-2.7439	-2.3828
	ekstrak	-18.98333 [*]	.05375	.000	-19.1639	-18.8028
F3	F1	18.90333 [*]	.05375	.000	18.7228	19.0839
	F3	-5.03667 [*]	.05375	.000	-5.2172	-4.8561
	F4	-9.30333 [*]	.05375	.000	-9.4839	-9.1228
	produk	2.47333 [*]	.05375	.000	2.2928	2.6539
F3	ekstrak	-13.94667 [*]	.05375	.000	-14.1272	-13.7661
	F1	23.94000 [*]	.05375	.000	23.7595	24.1205
	F2	5.03667 [*]	.05375	.000	4.8561	5.2172

F4	F4	-4.26667*	.05375	.000	-4.4472	-4.0861
	produk	6.74000*	.05375	.000	6.5595	6.9205
	ekstrak	-9.68000*	.05375	.000	-9.8605	-9.4995
	F1	28.20667*	.05375	.000	28.0261	28.3872
	F2	9.30333*	.05375	.000	9.1228	9.4839
	F3	4.26667*	.05375	.000	4.0861	4.4472

*. 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	6
F1	3	2.4433					
F2	3		21.3467				
produk	3			23.9100			
F3	3				26.3833		
F4	3					30.6500	
ekstrak	3						40.3300
Sig.		1.000	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.

Kruskal-Wallis Test

	formula	N	Mean Rank
spf	produk	3	8.00
	ekstrak	3	17.00
	F1	3	2.00
	F2	3	5.00
	F3	3	11.00
	F4	3	14.00
	Total	18	

	spf
Chi-Square	16.579
df	5
Asymp. Sig.	.005

a. Kruskal Wallis Test

b. Grouping Variable:
formula

Mann-Whitney Test

Ranks				
formula		N	Mean Rank	Sum of Ranks
spf	produk	3	2.00	6.00
	ekstrak	3	5.00	15.00
	Total	6		

Test Statistics ^a		spf
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		0.049535
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

a. Grouping Variable: formula
b. Not corrected for ties.

Mann-Whitney Test

Ranks				
formula		N	Mean Rank	Sum of Ranks
spf	produk	3	5.00	15.00
	F1	3	2.00	6.00
	Total	6		

Test Statistics ^a		spf
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		0.049535
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

a. Grouping Variable: formula
b. Not corrected for ties.

Mann-Whitney Test

Ranks				
formula		N	Mean Rank	Sum of Ranks
spf	produk	3	5.00	15.00
	F2	3	2.00	6.00
	Total	6		

Test Statistics ^a		spf
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		0.049535
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

a. Grouping Variable: formula
b. Not corrected for ties.

Mann-Whitney Test

Ranks				
formula		N	Mean Rank	Sum of Ranks
spf	produk	3	5.00	15.00
	F3	3	2.00	6.00
	Total	6		

Test Statistics ^a		spf
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		0.049535
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

a. Grouping Variable: formula
b. Not corrected for ties.

Mann-Whitney Test

Ranks				
formula		N	Mean Rank	Sum of Ranks
spf	produk	3	2.00	6.00
	F4	3	5.00	15.00
	Total	6		

Test Statistics ^a		spf
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		0.049535
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

a. Grouping Variable: formula
b. Not corrected for ties.

Mann-Whitney Test

Ranks				
formula		N	Mean Rank	Sum of Ranks
spf	ekstrak	3	5.00	15.00
	F1	3	2.00	6.00
	Total	6		

Test Statistics ^a		spf
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		0.049535
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

a. Grouping Variable: formula
b. Not corrected for ties.

Mann-Whitney Test

Ranks

formula	N	Mean Rank	Sum of Ranks
spf ekstrak	3	5.00	15.00
F2	3	2.00	6.00
Total	6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Mann-Whitney Test

Ranks

formula	N	Mean Rank	Sum of Ranks
spf ekstrak	3	5.00	15.00
F3	3	2.00	6.00
Total	6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Mann-Whitney Test

Ranks

formula	N	Mean Rank	Sum of Ranks
spf ekstrak	3	5.00	15.00
F4	3	2.00	6.00
Total	6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Mann-Whitney Test

Ranks

formula	N	Mean Rank	Sum of Ranks
spf F1	3	2.00	6.00
F2	3	5.00	15.00
Total	6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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Mann-Whitney Test

Ranks

formula	N	Mean Rank	Sum of Ranks
spf F1	3	2.00	6.00
F3	3	5.00	15.00
Total	6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Mann-Whitney Test

Ranks

formula	N	Mean Rank	Sum of Ranks
spf F1	3	2.00	6.00
F4	3	5.00	15.00
Total	6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Mann-Whitney Test

Ranks

	formula	N	Mean Rank	Sum of Ranks
spf	F2	3	2.00	6.00
	F3	3	5.00	15.00
Total		6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Mann-Whitney Test

Ranks

	formula	N	Mean Rank	Sum of Ranks
spf	F2	3	2.00	6.00
	F4	3	5.00	15.00
Total		6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Mann-Whitney Test

Ranks

	formula	N	Mean Rank	Sum of Ranks
spf	F3	3	2.00	6.00
	F4	3	5.00	15.00
Total		6		

Test Statistics^a

	spf
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	0.049535
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: formula

b. Not corrected for ties.

Rangkuman uji Mann Whitney

Perlakuan	K(+)	Ekstrak	F1	F2	F3	F4
K(+)		0,0495	0,0495	0,0495	0,0495	0,0495
Ekstrak	0,0495		0,0495	0,0495	0,0495	0,0495
F1	0,0495	0,0495		0,0495	0,0495	0,0495
F2	0,0495	0,0495	0,0495		0,0495	0,0495
F3	0,0495	0,0495	0,0495	0,0495		0,0495
F4	0,0495	0,0495	0,0495	0,0495	0,0495	

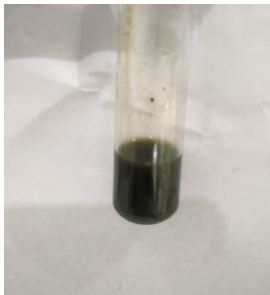
Lampiran 26. Perhitungan luas eritema

Perlakuan	Luas eritema (cm)	Rata-rata	SD
1	-	-	-
2	-	-	-
3	-	-	-
4	0,2	0,23	0,06
	0,3		
	0,2		
5	-	-	-
6	0,2	0,26	0,08
	0,2		
	0,1		
	0,3		
	0,3		

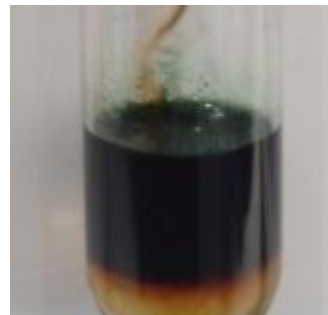
Lampiran 27. Simplisia daun stevia dan proses maserasi**Determinasi tanaman stevia****Daun Stevia Segar****Daun Stevia kering****Serbuk daun stevia****Maserasi****Evaporasi****Ekstrak etanol daun stevia****Susut Pengerinan**

Lampiran 28. Gambar identifikasi kandungan kimia

Saponin



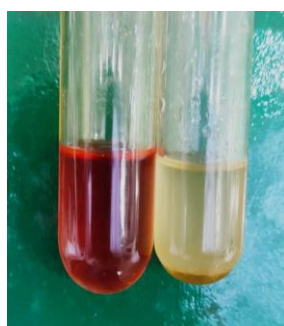
Tanin



Steroid



Flavonoid



Alkaloid

Lampiran 29. Gambar pengujian mutu fisik gel ekstrak daun stevia



Gel ekstrak etanol daun stevia



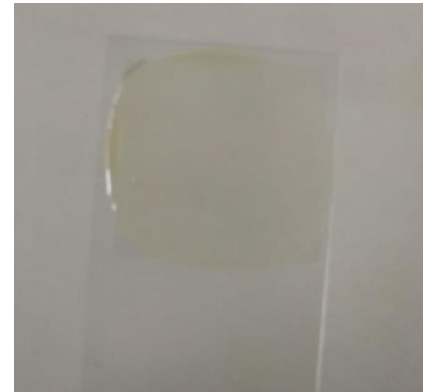
Setelah 21 hari



Viskositas



Daya Sebar



Homogenitas



Daya Lekat



pH



Freeze Thaw

Lampiran 30. Pengujian aktivitas tabir surya secara in vivo



Penyinaran



Pengamatan eritema

Lampiran 31. Pengujian aktivitas tabir surya secara in vitro

RawData ...	RawData ...	RawData ...
0.4282	0.4309	0.4276
0.4295	0.4300	0.4352
0.4262	0.4269	0.4262
0.4663	0.4606	0.4643
0.5470	0.5497	0.5500
0.5910	0.5901	0.5935
0.5619	0.5591	0.5601

Abs Kontrol positif

RawData ...	RawData ...	RawData ...
0.3920	0.3920	0.3925
0.4081	0.4081	0.4085
0.4095	0.4100	0.4105
0.4079	0.4080	0.4087
0.4049	0.4059	0.4057
0.3766	0.3770	0.3775
0.3291	0.3305	0.3310

Abs Ekstrak

RawData ...	RawData ...	RawData ...
0.2735	0.2754	0.2778
0.2499	0.2522	0.2548
0.2500	0.2522	0.2558
0.2467	0.2490	0.2525
0.2352	0.2373	0.2400
0.2113	0.2122	0.2145
0.1842	0.1846	0.1863

Abs kontrol negative

RawData ...	RawData ...	RawData ...
0.4248	0.4262	0.4259
0.4237	0.4251	0.4252
0.4236	0.4249	0.4246
0.4227	0.4232	0.4235
0.4271	0.4285	0.4283
0.4423	0.4433	0.4435
0.4632	0.4646	0.4642

Abs Formula 1

Data ...	RawData ...	RawData ...
0.6584	0.6577	0.6569
0.6068	0.6067	0.6063
0.5615	0.5599	0.5600
0.5180	0.5182	0.5178
0.4859	0.4859	0.4858
0.4633	0.4630	0.4626
0.4477	0.4475	0.4474

Abs Formula 2

RawData ...	RawData ...	RawData ...
0.7871	0.7884	0.7884
0.6543	0.6546	0.6542
0.6265	0.6274	0.6271
0.6093	0.6097	0.6095
0.5894	0.5892	0.5897
0.5729	0.5725	0.5720
0.5553	0.5536	0.5540

Abs Formula 3