L A M P I R A N

Lampiran 1. Surat determinasi

UPT-LABORATORIUM

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

Nomor : 307/DET/UPT-LAB/25.11/2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Fitri Nur Laily
NIM : 24185569A
Alamat : Program Studi S-1 Farmasi, Universitas Setia Budi, Surakarta.
Nama sampel : Kembang Telang / *Clitoria ternatea*, L

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida
Ordo : Fabales
Famili : Fabaceae/Papilionaceae
Genus : Clitoria
Species : *Clitoria ternatea*, 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 – 15b. golongan 9. 197b – 208b – 219b – 220b – 224b – 225b – 227b – 229b – 230a – 231b – 233a. familia 60. Papilionaceae. 1b - 5b - 16b - 19b - 20a -21a. *Clitoria ternatea,* L.

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

Habitus : Perdu, tinggi 5-10 m.

Akar : Akar tunggang.

Batang : Batang bulat, permukaanya berambut, arah tumbuhnya membelit ke kiri.

Daun : Daun menyirip berdaun 3-9, anak daun bertangkai sangat pendek, ellips atau bulat telur, tumpul, kebanyakan agak melekuk ke dalam, ukuran 2-7 kali 1-4,5 cm. Daun penumpu bentuk garis.

Bunga : Bunga dengan bendera mengarah ke bawah, jarang berjumlah dua, tangkai karangan bunga sampai 1,5 cm; anak tangkai bunga lk 0,5 cm. Daun pelindung pada pangkal kelopak oval lebar sampai bentuk lingkaran, bergaris, Panjang 0,5-1 cm. Kelopak tinggi 1,5-2,5 cm, gundul, taju 5, runcing. Bidang bendera oval yang lebar atau bulat telur terbalik, warna biru tua, biru muda, violet atau putih, di tengah dengan noda kuning pucat dilingkupi tepi warna putih, Panjang 4-5 cm; lunas bergandengan dengan sayap yang lebih pendek.

Buah : Buah polong bertangkai sangat pendek dengan sisa kelopak, bentuk garis, membengkok lemah, pipih sekali, berparuh, dengan sekat antara, Panjang 5-12,5 cm, berkatup 2,

Biji : Biji 6-10, pipih sekali, bentuk ginjal.

Surakarta, 25 November 2021

Kepala UPT-LAB
Universitas Setia Budi

Asik Gunawan, Amdk.

Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati. M.Sc.

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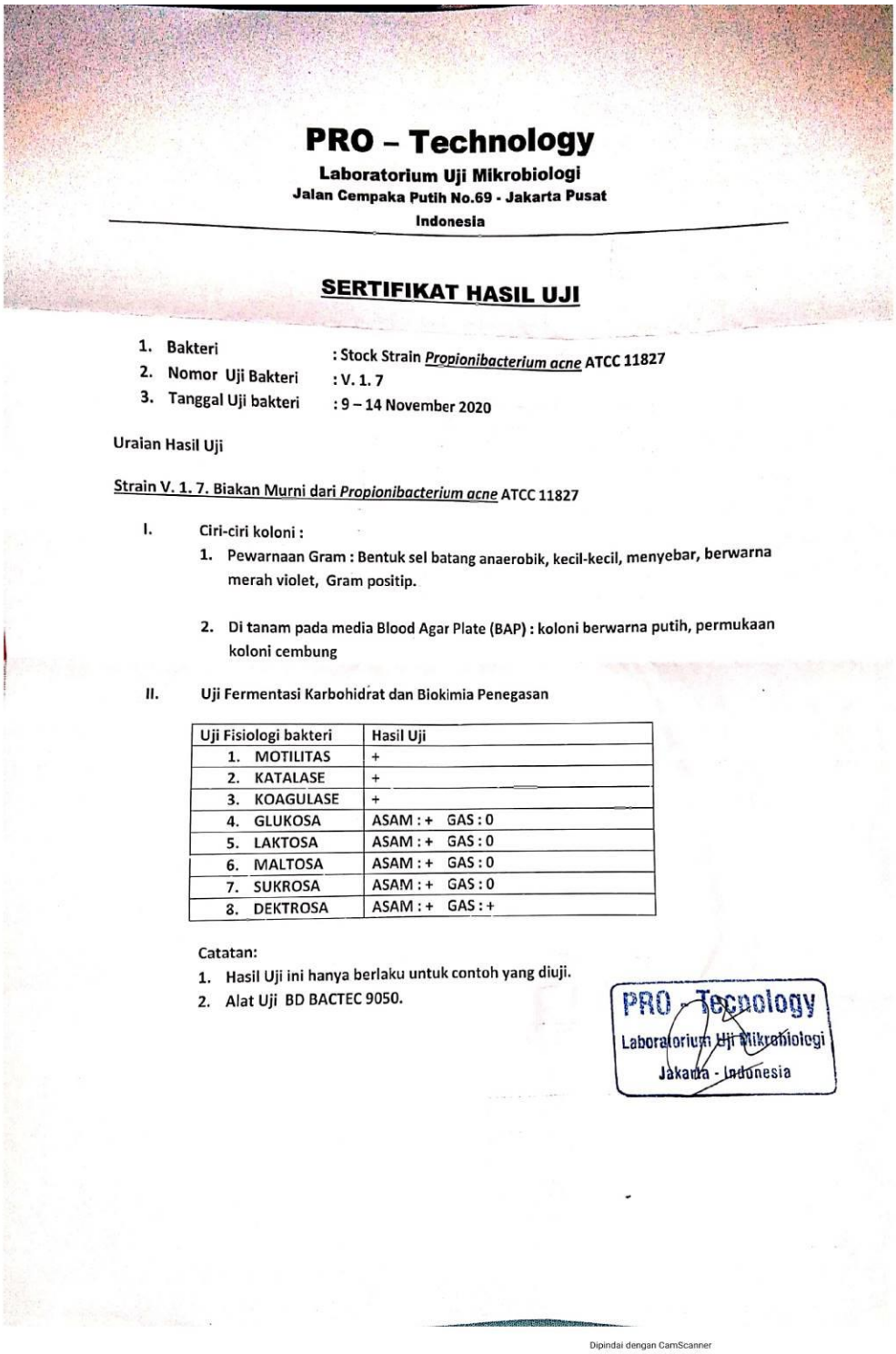
Lampiran 2. Surat bakteri *Propionobacterium acne*



PRO – Technology

Laboratorium Uji Mikrobiologi

Jalan Cempaka Putih No.69 - Jakarta Pusat

Indonesia

SERTIFIKAT HASIL UJI

1. Bakteri : Stock Strain *Propionibacterium acne* ATCC 11827
2. Nomor Uji Bakteri : V. 1. 7
3. Tanggal Uji bakteri : 9 – 14 November 2020

Uraian Hasil Uji

Strain V. 1. 7. Biakan Murni dari *Propionibacterium acne* ATCC 11827

I. Ciri-ciri koloni :

1. Pewarnaan Gram : Bentuk sel batang anaerobik, kecil-kecil, menyebar, berwarna merah violet, Gram positip.
2. Di tanam pada media Blood Agar Plate (BAP) : koloni berwarna putih, permukaan koloni cembung

II. Uji Fermentasi Karbohidrat dan Biokimia Penegasan

Uji Fisiologi bakteri	Hasil Uji
1. MOTILITAS	+
2. KATALASE	+
3. KOAGULASE	+
4. GLUKOSA	ASAM : + GAS : 0
5. LAKTOSA	ASAM : + GAS : 0
6. MALTOSA	ASAM : + GAS : 0
7. SUKROSA	ASAM : + GAS : 0
8. DEKTROSA	ASAM : + GAS : +

Catatan:

1. Hasil Uji ini hanya berlaku untuk contoh yang diuji.
2. Alat Uji BD BACTEC 9050.

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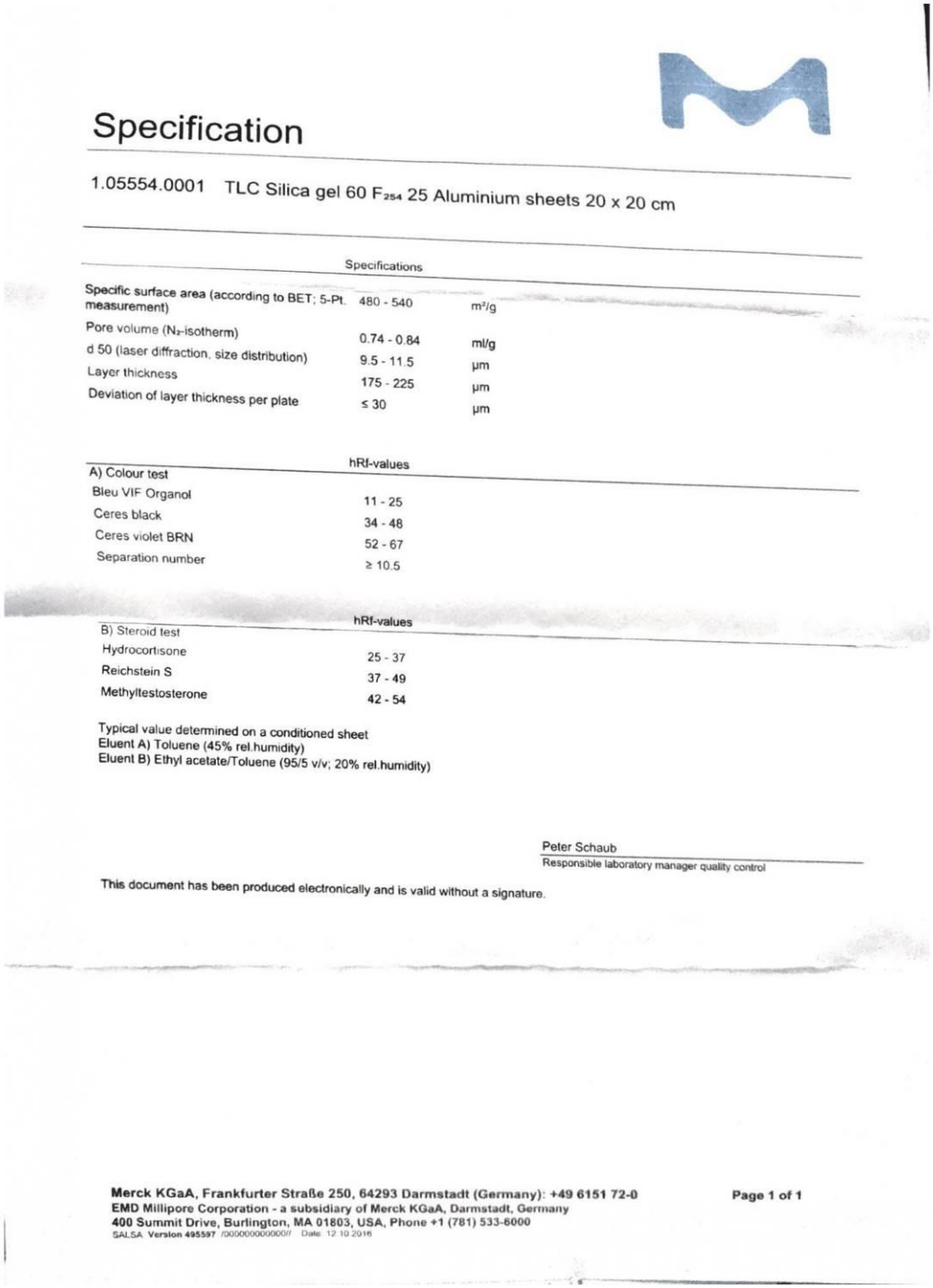
Lampiran 3. TLC silika gel



Specification

1.05554.0001 TLC Silica gel 60 F_{254} 25 Aluminium sheets 20 x 20 cm

Specifications		
Specific surface area (according to BET; 5-Pt. measurement)	480 - 540	m^2/g
Pore volume (N_2-isotherm)	0.74 - 0.84	ml/g
d 50 (laser diffraction, size distribution)	9.5 - 11.5	µm
Layer thickness	175 - 225	µm
Deviation of layer thickness per plate	≤ 30	µm

hRf-values	
A) Colour test	
Bleu VIF Organol	11 - 25
Ceres black	34 - 48
Ceres violet BRN	52 - 67
Separation number	≥ 10.5

hRf-values	
B) Steroid test	
Hydrocortisone	25 - 37
Reichstein S	37 - 49
Methyltestosterone	42 - 54

Typical value determined on a conditioned sheet
Eluent A) Toluene (45% rel.humidity)
Eluent B) Ethyl acetate/Toluene (95/5 v/v; 20% rel.humidity)

Peter Schaub
Responsible laboratory manager quality control

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EMD Millipore Corporation - a subsidiary of Merck KGaA, Darmstadt, Germany
400 Summit Drive, Burlington, MA 01803, USA, Phone +1 (781) 533-6000

SALSA Version 495597 /000000000001/ Date 12.10.2016

Lampiran 4. COA DMSO

Specification

1.03092.0025 Dithizone for analysis (1,5-diphenylthiocarbazone) Reag. Ph Eur

	Specification	
Assay (argentometric)	≥ 98.0	%
Identity (IR-spectrum)	passes test	
Identity (UV/VIS-Spectrum)	passes test	
Absorption maximum λ_{max} (Chloroform)	604 - 607	nm
Spec. Absorptivity A1%/1cm (λ_{max}; 0.005 g/l; chloroform)	≥ 1522	
Absorption ratio (605 nm / 445 nm; 0.005 g/l; choroform)	≥ 2.5	
Sulfated ash (600 °C)	≤ 0.2	%

Dr. Ralf Burgert
Responsible laboratory manager quality control

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SALSA **Version 500705** /000000000000/ Date 13.12.2016

Lampiran 5. Gambar bunga telang (*Clitoria ternatea* L.)

Bunga telang kering

Serbuk bunga telang sebelum diayak

Serbuk bunga telang sesudah diayak

Maserasi bunga telang

Ekstrak kental bunga telang

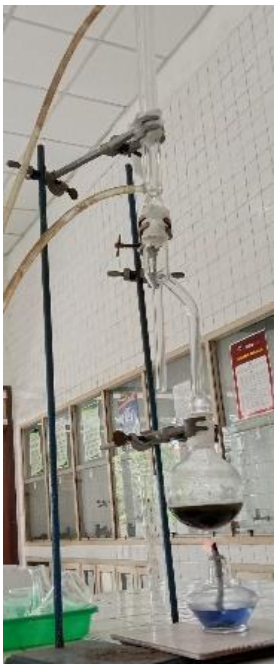
Penimbangan ekstrak kental bunga telang

Lampiran 6. Gambar alat penelitian

Penggiling serbuk

Ayakan mesh no.40

Botol maserasi



Sterling bidwell

Hasil uji kadar air *sterling bidwell*

Oven

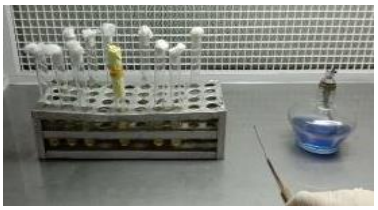
Desikator

Vortex

Timbangan analitk

Alat *Moisture Balance*

Perlengkapan pembuatan media NA dan MHA



Perlengkapan penanaman bakteri ke media NA

Lampiran 7. Perhitungan randemen serbuk dan ekstrak bunga telang

A. Data perhitungan serbuk bunga telang

Bunga telang segar = 1800 gram
Bunga telang kering = 900 gram
Serbuk bunga telang = 790 gram
Serbuk setelah diayak = 763 gram

$$\% \text{ randemen serbuk} = \frac{Bobot\ serbuk\ sesudah\ diayak}{Bobot\ simplisia\ kering} \text{ X } 100\%$$
$$= \frac{763}{900} \text{ X } 100\%$$
$$= 84{,}83\ \%$$

B. Data perhitungan ekstrak bunga telang

Botol ekstrak I

Berat botol = 220,1 gram
Botol + ekstrak = 284 gram

Berat ekstrak = 63,9 gram

Botol ekstrak II

Berat botol = 220,9 gram
Botol + ekstrak = 332 gram

Berat ekstrak = 111,1 gram

Berat total ekstrak = 63,9 gram + 111,1 gram = 175 gram

$$\% \text{ randemen ekstrak} = \frac{Bobot\ ekstrak}{Bobot\ simplisia} \text{ X } 100\%$$
$$= \frac{175}{900} \text{ X } 100\%$$
$$= 19{,}4\ \%$$

Lampiran 8. Perhitungan kadar air serbuk bunga telang

Kadar air serbuk bunga telang (*Sterling bidwell*)

$$\% \text{ kadar air} = \frac{Volume\ air\ (ml)}{Berat\ sampel\ (gram)} \text{ X } 100\%$$

$$(R1)\ \% \text{ kadar air} = \frac{0{,}8\ ml}{20\ gram} \text{ X } 100\% = 4\ \%$$

$$(R2)\ \% \text{ kadar air} = \frac{1{,}5\ ml}{20\ gram} \text{ X } 100\% = 7{,}5\ \%$$

$$(R3)\ \% \text{ kadar air} = \frac{1{,}8\ ml}{20\ gram} \text{ X } 100\% = 9\%$$

Lampiran 9. Perhitungan susut pengeringan ekstrak bunga telang

Kadar air ekstrak bunga telang (Gravimetri)

Kadar air ekstrak = $\frac{b-(c-a)}{b}$ X 100%

a = Berat konstan cawan kering sebelum digunakan
b = Berat konstan awal sebelum diuapkan / dikeringkan
c = Berat konstan cawan berisi bahan kering

Diket (R1) :
Berat kurs = 39,921
Kurs + sampel = 49,747
Sampel = 10,066

(R1) = $\frac{10,066-(49,747-39,921)}{10,066}$ X 100%
= $\frac{10,066-9,826}{10,066}$ X 100%
= $\frac{0,24}{10,066}$ X 100%
= 2,384 %

Diket (RII) :
Berat kurs = 40,859
Kurs + sampel = 50,650
Sampel = 10,023

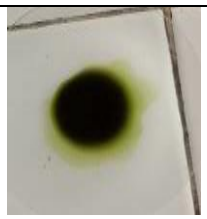
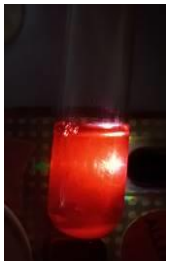
(R2) = $\frac{10,023-(50,650-40,859)}{10,023}$ X 100%
= $\frac{10,023-9,791}{10,023}$ X 100%
= $\frac{0,232}{10,023}$ X 100%
= 2,314 %

Diket (R1II) :
Berat kurs = 40,544
Kurs + sampel = 50,403
Sampel = 10,072

(R3) = $\frac{10,072-(50,403-40,544)}{10,072}$ X 100%
= $\frac{10,072-9,859}{10,072}$ X 100%
= $\frac{0,213}{10,072}$ X 100%
= 2,114%

Selisih antar replikasi :
RI – R2 = 2,384 – 2,314 = 0,07%
R2 – R3 = 2,314 – 2,114 = 0,2%

Lampiran 10. Hasil skrining fitokimia

Uji	Hasil	Keterangan
Bebas alkohol		Tidak tercium bau ester yang khas (+) Tidak mengalami perubahan warna (+)
Flavanoid		Terjadi perubahan warna kuning pada lapisan amil alkohol (+)
Alkaloid		Terjadi endapan atau kekeruhan (+)
Fenol		Terjadi perubahan warna kehitaman (+)
Antosianin		Terjadi perubahan warna biru-kehijauan (+)

		Terjadi perubahan warna merah (+)

Lampiran 11. Perhitungan KLT antosianin

A. Perhitungan KLT antosianin

$$Rf = \frac{Jarak\ yang\ ditempuh\ senyawa}{Jarak\ yang\ ditempuh\ pelarut}$$

1. Diket :
   Jarak senyawa = 3,9
   Jarak pelarut = 4,5
   Rf I = $\frac{2,9}{4,5}$ = 0,644

2. Diket :
   Jarak senyawa = 2,2
   Jarak pelarut = 4,5
   Rf II = $\frac{2,2}{4,5}$ = 0,488

Lampiran 12. Perhitungan pengenceran DMSO 10%

A. Perhitungan pengenceran ekstrak menggunkan DMSO 10%

CxV = VxC

98%xV = 155 ml X 10%

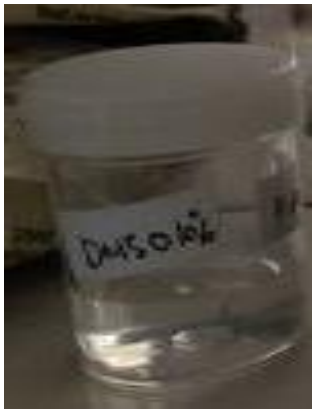
$$V = \frac{155\ ml\ X\ 10\%}{98\%} = 15{,}81 \text{ ml}$$

Jadi, DMSO 98% 15,81 ml ad aquadest 155 ml

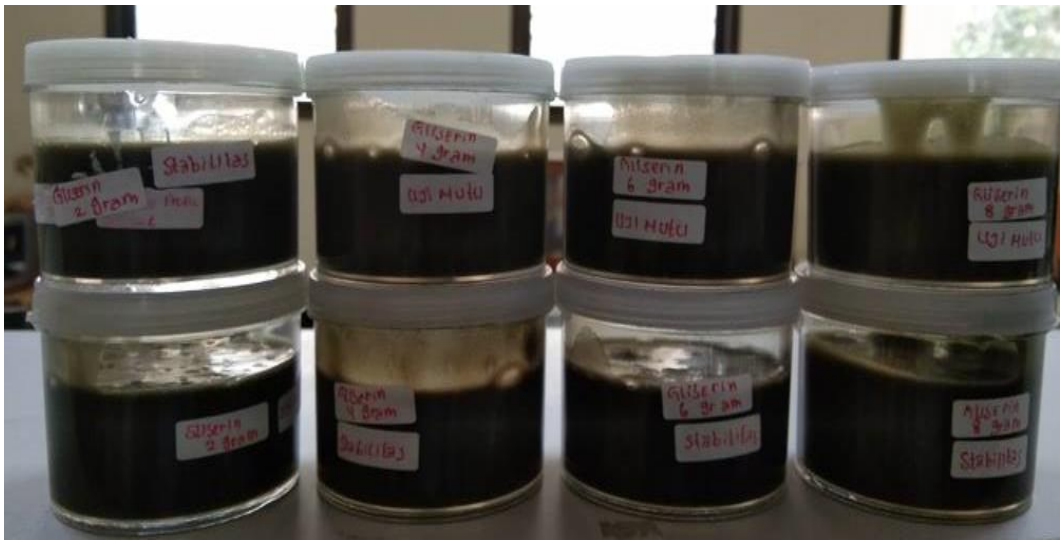
Membuat pengenceran ekstrak:

- 7% = 7 gram/ 100 ml
  = 3,5 gram/ 50 ml
- 10% = 10 gram/ 100 ml
  = 5 gram/ 50 ml
- 13% = 13 gram/ 100 ml
  = 6,5 gram/ 50 ml

Lampiran 13. Hasil pengenceran ekstrak bunga telang



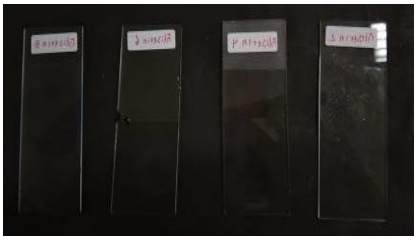
Lampiran 14. Sediaan gel ekstrak Bunga telang



Lampiran 15. Basis gel

Lampiran 16. Uji mutu fisik

Uji homogenitas



Basis gel

Gel ekstrak bunga telang

Uji pH

Uji viskositas

Uji daya lekat

Uji daya sebar

Lampiran 17. Hasil identifikasi bakteri *Propionibacterium acne*

Pewarnaan gram *Propionibacterium acne*

Uji indol

Uji katalase

Lampiran 18. Perhitungan media NA dan media MHA

- **Media NA**

  Rumus $= \frac{x}{1000}$ X 20 gram

  $= \frac{100}{1000}$ X 20 gram = 2 g/ 100 ml → 10 tab @5 ml

- **Media MHA**

  1 Petri besar = 60 ml

  1 Petri kecil = 30 ml

  Rumus = $\frac{x}{1000}$ X 38 gram

  Petri besar $= \frac{60\ ml}{1000}$ x 38 gram = 2,28 gram/ 60 ml

  3 replikasi = 2,28 gram X 3 = 6,84 gram/ 180 ml

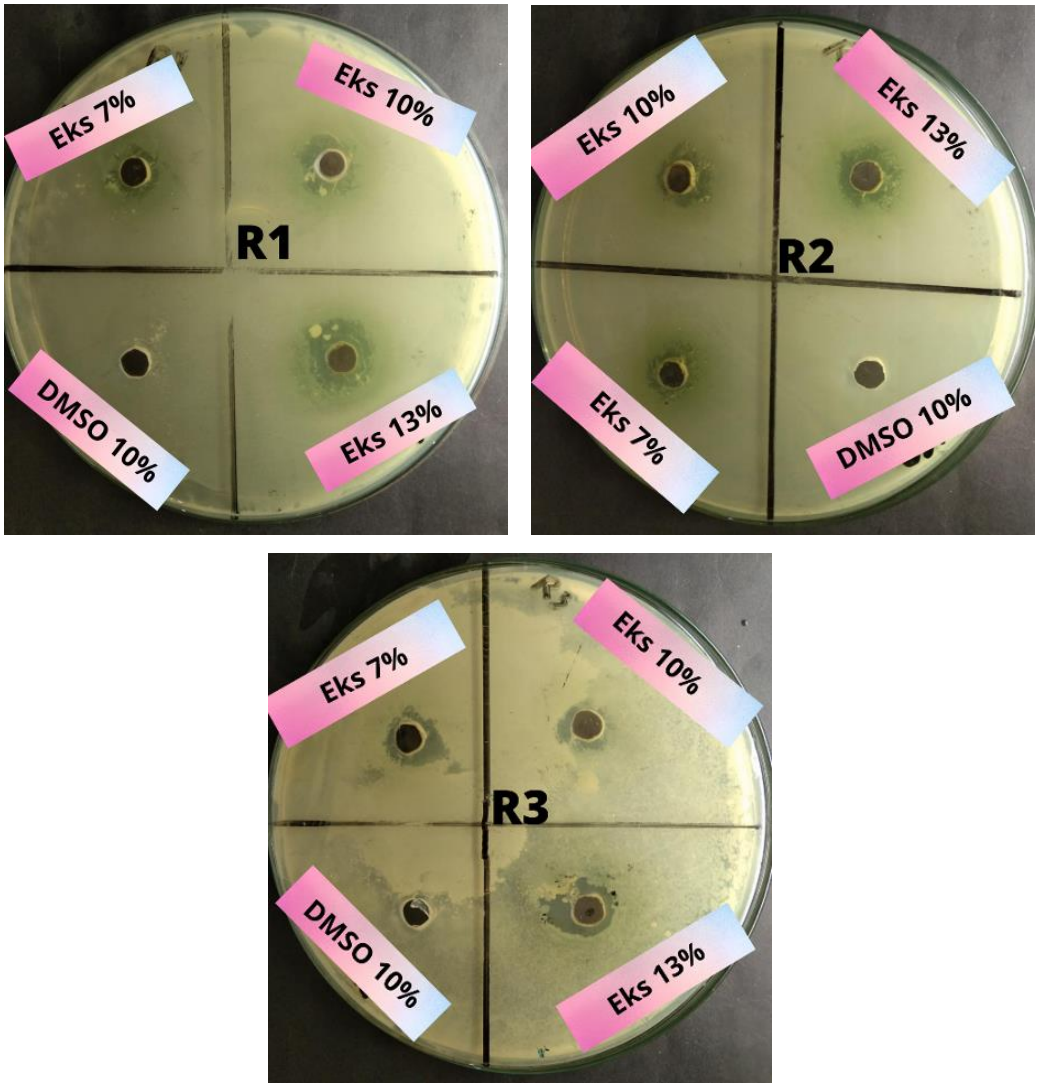
  Petri kecil $= \frac{30\ ml}{1000}$ X 38 gram = 1,14 gram/ 30 ml

  3 replikasi = 1,14 gram X 3 = 3,42 gram/ 90 ml

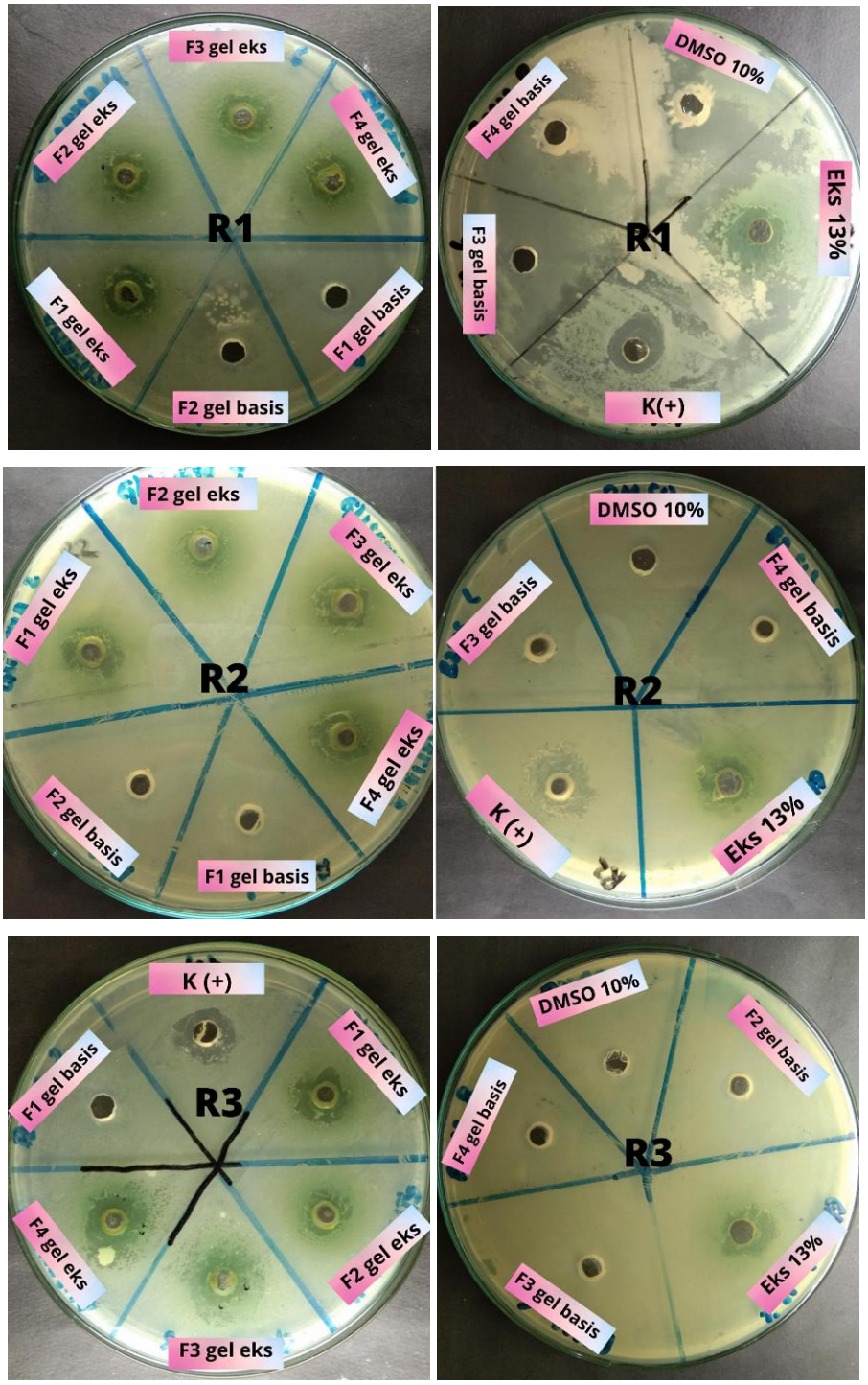
Lampiran 19. Suspensi bakteri *Propionibacterium acne*

Lampiran 20. Gel ekstrak bunga telang yang diujikan pada bakteri *Propionibacterium acne*

Lampiran 21. Hasil uji ekstrak bunga telang terhadap *Propionibacterium acne*



Lampiran 22. Hasil uji aktivitas antibakteri formula gel ekstrak bunga telang terhadap bakteri *Propionibacterium acne*



Lampiran 23. Hasil SPSS uji mutu fisik basis gel pH

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	pH_basis	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_pH_basis	F1	.253	3	.	.964	3	.637
	F2	.269	3	.	.949	3	.567
	F3	.371	3	.	.784	3	.077
	F4	.343	3	.	.842	3	.220

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Hasil_pH_basis	F1	3	8.2200	.04583	.02646	8.1062	8.3338	8.17	8.26
	F2	3	8.2333	.05132	.02963	8.1059	8.3608	8.19	8.29
	F3	3	8.0867	.12423	.07172	7.7781	8.3953	8.01	8.23
	F4	3	8.2500	.04359	.02517	8.1417	8.3583	8.20	8.28
	Total	12	8.1975	.09275	.02677	8.1386	8.2564	8.01	8.29

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_pH_basis	3.840	3	8	.057

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hasil_pH_basis	Between Groups	.050	3	.017	3.051	.092
	Within Groups	.044	8	.006		
	Total	.095	11			

Lampiran 24. Hasil SPSS uji mutu fisik basis gel viskositas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Viskositas_basis	Statistic	df	Sig.	Statistic	df	Sig.
basis_viskos_hasil	F1	.385	3	.	.750	3	.000
	F2	.385	3	.	.750	3	.000
	F3	.385	3	.	.750	3	.000
	F4	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
F1	3	9166.6667	288.67513	9000.00	9500.00
F2	3	8166.6667	288.67513	8000.00	8500.00
F3	3	7166.6667	288.67513	7000.00	7500.00
F4	3	6166.6667	288.67513	6000.00	6500.00

One-Sample Kolmogorov-Smirnov Test

		basis_viskos_hasil	F1	F2	F3	F4
N		12	3	3	3	3
Normal Parameters[a,b]	Mean	7666.6667	9166.6667	8166.6667	7166.6667	6166.6667
	Std. Deviation	1193.41628	288.67513	288.67513	288.67513	288.67513
Most Extreme Differences	Absolute	.128	.385	.385	.385	.385
	Positive	.128	.385	.385	.385	.385
	Negative	-.118	-.282	-.282	-.282	-.282
Test Statistic		.128	.385	.385	.385	.385
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Viskositas_basis	N	Mean Rank
basis_viskos_hasil	F1	3	11.00
	F2	3	8.00
	F3	3	5.00
	F4	3	2.00
	Total	12	
F1	F1	3	2.00
	Total	3[a]	
F2	F1	3	2.00
	Total	3[a]	
F3	F1	3	2.00
	Total	3[a]	
F4	F1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	basis_viskos_hasil
Chi-Square	10.532
df	3
Asymp. Sig.	.015

a. Kruskal Wallis Test

b. Grouping Variable: Viskositas_basis

Lampiran 25. Hasil SPSS uji mutu fisik basis gel daya lekat

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Daya_lekat	Statistic	df	Sig.	Statistic	df	Sig.
Daya_lekat_basis	F1	.385	3	.	.750	3	.000
	F2	.253	3	.	.964	3	.637
	F3	.253	3	.	.964	3	.637
	F4	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Daya_lekat_basis	12	1.8392	.06487	1.75	1.94
F1	3	1.9133	.02309	1.90	1.94
F2	3	1.8767	.01528	1.86	1.89
F3	3	1.8067	.03055	1.78	1.84
F4	3	1.7600	.01000	1.75	1.77

One-Sample Kolmogorov-Smirnov Test

		Daya_lekat_basis	F1	F2	F3	F4
N		12	3	3	3	3
Normal Parameters[a,b]	Mean	1.8392	1.9133	1.8767	1.8067	1.7600
	Std. Deviation	.06487	.02309	.01528	.03055	.01000
Most Extreme Differences	Absolute	.152	.385	.253	.253	.175
	Positive	.152	.385	.196	.253	.175
	Negative	-.152	-.282	-.253	-.196	-.175
Test Statistic		.152	.385	.253	.253	.175
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Daya_lekat	N	Mean Rank
Daya_lekat_basis	F1	3	11.00
	F2	3	8.00
	F3	3	5.00
	F4	3	2.00
	Total	12	
F1	F1	3	2.00
	Total	3[a]	
F2	F1	3	2.00
	Total	3[a]	
F3	F1	3	2.00
	Total	3[a]	
F4	F1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Daya_lekat_basis
Chi-Square	10.421
df	3
Asymp. Sig.	.015

a. Kruskal Wallis Test

b. Grouping Variable: Daya_lekat

Lampiran 26. Hasil SPSS uji mutu fisik basis gel daya sebar

Tests of Normality[b]

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Uji_dayaseba	Statistic	df	Sig.	Statistic	df	Sig.
Dayasebar_basis	1	.385	3	.	.750	3	.000
	2	.385	3	.	.750	3	.000
	3	.175	3	.	1.000	3	1.000
	4	.175	3	.	1.000	3	1.000
	5	.385	3	.	.750	3	.000
	6	.385	3	.	.750	3	.000
	8	.175	3	.	1.000	3	1.000
	9	.385	3	.	.750	3	.000
	10	.385	3	.	.750	3	.000
	11	.385	3	.	.750	3	.000
	12	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

b. Dayasebar_basis is constant when Uji_dayaseba = 7. It has been omitted.

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Dayasebar_basis	36	3.1472	.29422	2.60	3.70
F1_beban_0	3	2.6333	.05774	2.60	2.70
F1_beban_50	3	2.8667	.05774	2.80	2.90
F1_beban_100	3	3.1000	.10000	3.00	3.20
F2_beban_0	3	2.8000	.10000	2.70	2.90
F2_beban_50	3	3.0667	.11547	3.00	3.20
F2_beban_100	3	3.3667	.05774	3.30	3.40
F3_beban_0	3	3.0000	.00000	3.00	3.00
F3_beban_50	3	3.3000	.10000	3.20	3.40
F3_beban_100	3	3.4333	.05774	3.40	3.50
F4_beban_0	3	3.1333	.05774	3.10	3.20
F4_beban_50	3	3.4667	.11547	3.40	3.60
F4_beban_100	3	3.6000	.10000	3.50	3.70

One-Sample Kolmogorov-Smirnov Test

		Dayasebar_basis	F1_beban_0	F1_beban_50	F1_beban_100	F2_beban_0
N		36	3	3	3	3
Normal Parameters[a,b]	Mean	3.1472	2.6333	2.8667	3.1000	2.8000
	Std. Deviation	.29422	.05774	.05774	.10000	.10000
Most Extreme Differences	Absolute	.138	.385	.385	.175	.175
	Positive	.108	.385	.282	.175	.175
	Negative	-.138	-.282	-.385	-.175	-.175
Test Statistic		.138	.385	.385	.175	.175
Asymp. Sig. (2-tailed)		.080[c]	.[c,d]	.[c,d]	.[c,d]	.[c,d]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Significance can not be computed because sum of case weights is less than 5.

e. The distribution has no variance for this variable. One-Sample Kolmogorov-Smirnov Test cannot be performed.

F2_beban_50	F2_beban_100	F3_beban_0	F3_beban_50	F3_beban_100	F4_beban_0	F4_beban_50	F4_beban_100
3	3	3	3	3	3	3	3
3.0667	3.3667	3.0000	3.3000	3.4333	3.1333	3.4667	3.6000
.11547	.05774	.00000[e]	.10000	.05774	.05774	.11547	.10000
.385	.385		.175	.385	.385	.385	.175
.385	.282		.175	.385	.385	.385	.175
-.282	-.385		-.175	-.282	-.282	-.282	-.175
.385	.385		.175	.385	.385	.385	.175
.[c,d]	.[c,d]		.[c,d]	.[c,d]	.[c,d]	.[c,d]	.[c,d]

Ranks

	Uji_dayaseba	N	Mean Rank
Dayasebar_basis	1	3	2.17
	2	3	7.17
	3	3	16.67
	4	3	5.67
	5	3	15.17
	6	3	26.50
	7	3	12.50
	8	3	24.00
	9	3	29.50
	10	3	18.17
	11	3	30.17
	12	3	34.33
	Total	36	
F1_beban_0	1	3	2.00
	Total	3[a]	
F1_beban_50	1	3	2.00
	Total	3[a]	
F1_beban_100	1	3	2.00
	Total	3[a]	
F2_beban_0	1	3	2.00
	Total	3[a]	
F2_beban_50	1	3	2.00
	Total	3[a]	
F2_beban_100	1	3	2.00
	Total	3[a]	
F3_beban_0	1	3	2.00
	Total	3[a]	
F3_beban_50	1	3	2.00
	Total	3[a]	
F3_beban_100	1	3	2.00
	Total	3[a]	
F4_beban_0	1	3	2.00
	Total	3[a]	
F4_beban_50	1	3	2.00
	Total	3[a]	
F4_beban_100	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Dayasebar_basis
Chi-Square	33.264
df	11
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Uji_dayaseba

Lampiran 27. Hasil SPSS uji mutu fisik gel ekstrak bunga telang pH

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Uji_pH	Statistic	df	Sig.	Statistic	df	Sig.
Uji_pH_gel_eks	F1	.232	3	.	.980	3	.726
	F2	.292	3	.	.923	3	.463
	F3	.175	3	.	1.000	3	1.000
	F4	.184	3	.	.999	3	.927

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Uji_pH_gel_eks	F1	3	4.7333	.04041	.02333	4.6329	4.8337	4.69	4.77
	F2	3	4.8233	.02082	.01202	4.7716	4.8750	4.80	4.84
	F3	3	4.7600	.02000	.01155	4.7103	4.8097	4.74	4.78
	F4	3	4.7667	.07506	.04333	4.5802	4.9531	4.69	4.84
	Total	12	4.7708	.05143	.01485	4.7382	4.8035	4.69	4.84

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Uji_pH_gel_eks	1.570	3	8	.271

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Uji_pH_gel_eks	Between Groups	.013	3	.004	2.122	.176
	Within Groups	.016	8	.002		
	Total	.029	11			

Lampiran 28. Hasil SPSS uji mutu fisik gel ekstrak bunga telang viskositas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Uji_viskositas	Statistic	df	Sig.	Statistic	df	Sig.
Uji_viskositas_gel_eks	F1	.385	3	.	.750	3	.000
	F2	.385	3	.	.750	3	.000
	F3	.385	3	.	.750	3	.000
	F4	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Uji_viskositas_gel_eks	12	5708.3333	1137.34806	4000.00	7500.00
F1	3	7166.6667	288.67513	7000.00	7500.00
F2	3	6166.6667	288.67513	6000.00	6500.00
F3	3	5166.6667	288.67513	5000.00	5500.00
F4	3	4333.3333	288.67513	4000.00	4500.00

One-Sample Kolmogorov-Smirnov Test

		Uji_viskositas_gel_eks	F1	F2	F3	F4
N		12	3	3	3	3
Normal Parameters[a,b]	Mean	5708.3333	7166.6667	6166.6667	5166.6667	4333.3333
	Std. Deviation	1137.34806	288.67513	288.67513	288.67513	288.67513
Most Extreme Differences	Absolute	.150	.385	.385	.385	.385
	Positive	.150	.385	.385	.385	.282
	Negative	-.122	-.282	-.282	-.282	-.385
Test Statistic		.150	.385	.385	.385	.385
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Uji_viskositas	N	Mean Rank
Uji_viskositas_gel_eks	F1	3	11.00
	F2	3	8.00
	F3	3	5.00
	F4	3	2.00
	Total	12	
F1	F1	3	2.00
	Total	3[a]	
F2	F1	3	2.00
	Total	3[a]	
F3	F1	3	2.00
	Total	3[a]	
F4	F1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Uji_viskositas_gel_eks
Chi-Square	10.532
df	3
Asymp. Sig.	.015

a. Kruskal Wallis Test

b. Grouping Variable: Uji_viskositas

Lampiran 29. Hasil SPSS uji mutu fisik gel ekstrak bunga telang daya lekat

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Daya_lekat	Statistic	df	Sig.	Statistic	df	Sig.
Uji_daya_lekat_gel_eks	F1	.253	3	.	.964	3	.637
	F2	.292	3	.	.923	3	.463
	F3	.253	3	.	.964	3	.637
	F4	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Uji_daya_lekat_gel_eks	F1	3	1.8667	.01528	.00882	1.8287	1.9046	1.85	1.88
	F2	3	1.8233	.02082	.01202	1.7716	1.8750	1.80	1.84
	F3	3	1.7633	.01528	.00882	1.7254	1.8013	1.75	1.78
	F4	3	1.6767	.02517	.01453	1.6142	1.7392	1.65	1.70
	Total	12	1.7825	.07629	.02202	1.7340	1.8310	1.65	1.88

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Uji_daya_lekat_gel_eks	.409	3	8	.751

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Uji_daya_lekat_gel_eks	Between Groups	.061	3	.020	53.007	.000
	Within Groups	.003	8	.000		
	Total	.064	11			

Lampiran 30. Hasil SPSS uji mutu fisik gel ekstrak bunga telang daya sebar

Tests of Normality[b]

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Uji_dayasebar	Statistic	df	Sig.	Statistic	df	Sig.
Uji_dayasebar_gel_eks	1	.385	3	.	.750	3	.000
	2	.253	3	.	.964	3	.637
	3	.175	3	.	1.000	3	1.000
	5	.253	3	.	.964	3	.637
	6	.385	3	.	.750	3	.000
	7	.175	3	.	1.000	3	1.000
	8	.385	3	.	.750	3	.000
	9	.385	3	.	.750	3	.000
	10	.385	3	.	.750	3	.000
	11	.253	3	.	.964	3	.637
	12	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

b. Uji_dayasebar_gel_eks is constant when Uji_dayasebar = 4. It has been omitted.

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Uji_dayasebar_gel_eks	36	3.6194	.42414	2.90	4.40
F1_beban_0	3	2.9333	.05774	2.90	3.00
F1_beban_50	3	3.2667	.15275	3.10	3.40
F1_beban_100	3	3.6000	.10000	3.50	3.70
F2_beban_0	3	3.0000	.00000	3.00	3.00
F2_beban_50	3	3.6667	.15275	3.50	3.80
F2_beban_100	3	3.8667	.05774	3.80	3.90
F3_beban_0	3	3.3000	.10000	3.20	3.40
F3_beban_50	3	3.8667	.05774	3.80	3.90
F3_beban_100	3	4.0333	.05774	4.00	4.10
F4_beban_0	3	3.5667	.11547	3.50	3.70
F4_beban_50	3	4.0333	.15275	3.90	4.20
F4_beban_100	3	4.3000	.10000	4.20	4.40

One-Sample Kolmogorov-Smirnov Test

		Uji_dayasebar_gel_eks	F1_beban_0	F1_beban_50	F1_beban_100	F2_beban_0
N		36	3	3	3	3
Normal Parameters[a,b]	Mean	3.6194	2.9333	3.2667	3.6000	3.0000
	Std. Deviation	.42414	.05774	.15275	.10000	.00000[f]
Most Extreme Differences	Absolute	.109	.385	.253	.175	
	Positive	.095	.385	.196	.175	
	Negative	-.109	-.282	-.253	-.175	
Test Statistic		.109	.385	.253	.175	
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]	.[c,e]	

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

f. The distribution has no variance for this variable. One-Sample Kolmogorov-Smirnov Test cannot be performed.

F2_beban_50	F2_beban_100	F3_beban_0	F3_beban_50	F3_beban_100	F4_beban_0	F4_beban_50	F4_beban_100
3	3	3	3	3	3	3	3
3.6667	3.8667	3.3000	3.8667	4.0333	3.5667	4.0333	4.3000
.15275	.05774	.10000	.05774	.05774	.11547	.15275	.10000
.253	.385	.175	.385	.385	.385	.253	.175
.196	.282	.175	.282	.385	.385	.253	.175
-.253	-.385	-.175	-.385	-.282	-.282	-.196	-.175
.253	.385	.175	.385	.385	.385	.253	.175
.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]

Ranks

	Uji_dayasebar	N	Mean Rank
Uji_dayasebar_gel_eks	1	3	2.50
	2	3	9.33
	3	3	16.83
	4	3	4.50
	5	3	18.50
	6	3	24.67
	7	3	9.67
	8	3	24.67
	9	3	30.67
	10	3	16.00
	11	3	29.83
	12	3	34.83
	Total	36	
F1_beban_0	1	3	2.00
	Total	3[a]	
F1_beban_50	1	3	2.00
	Total	3[a]	
F1_beban_100	1	3	2.00
	Total	3[a]	
F2_beban_0	1	3	2.00
	Total	3[a]	
F2_beban_50	1	3	2.00
	Total	3[a]	
F2_beban_100	1	3	2.00
	Total	3[a]	
F3_beban_0	1	3	2.00
	Total	3[a]	
F3_beban_50	1	3	2.00
	Total	3[a]	
F3_beban_100	1	3	2.00
	Total	3[a]	
F4_beban_0	1	3	2.00
	Total	3[a]	
F4_beban_50	1	3	2.00
	Total	3[a]	
F4_beban_100	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Uji_dayasebar_gel_eks
Chi-Square	33.822
df	11
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Uji_dayasebar

Lampiran 31. Hasil SPSS uji stabilitas gel ekstrak bunga telang pH

a. Formula 1

Tests of Normality

	stabilitas_pH_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.232	3	.	.980	3	.726
	2	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	4.7333	.04041	.02333	4.6329	4.8337	4.69	4.77
2	3	4.6667	.02082	.01202	4.6150	4.7184	4.65	4.69
Total	6	4.7000	.04648	.01897	4.6512	4.7488	4.65	4.77

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
1.180	1	4	.338

ANOVA

Hasil_stabilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.007	1	.007	6.452	.064
Within Groups	.004	4	.001		
Total	.011	5			

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_sesudah	.06667	.03786	.02186	-.02738	.16071	3.050	2	.093

b. Formula 2

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	stabilitas_pH_gel_eks	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.292	3	.	.923	3	.463
	2	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	4.8233	.02082	.01202	4.7716	4.8750	4.80	4.84
2	3	4.7133	.01528	.00882	4.6754	4.7513	4.70	4.73
Total	6	4.7683	.06242	.02548	4.7028	4.8338	4.70	4.84

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.500	1	4	.519

ANOVA

Hasil_stabilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.018	1	.018	54.450	.002
Within Groups	.001	4	.000		
Total	.019	5			

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	F2_sebelum - F2_sesudah	.11000	.03606	.02082	.02043	.19957	5.284	2	.034

c. Formula 3

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Stabilitas_pH_gel_eks	Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.175	3	.	1.000	3	1.000
	2	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	4.7600	.02000	.01155	4.7103	4.8097	4.74	4.78
2	3	4.6900	.01000	.00577	4.6652	4.7148	4.68	4.70
Total	6	4.7250	.04087	.01668	4.6821	4.7679	4.68	4.78

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
.800	1	4	.422

ANOVA

Hasil_stabilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.007	1	.007	29.400	.006
Within Groups	.001	4	.000		
Total	.008	5			

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	F3_sebelum - F3_sesudah	.07000	.01732	.01000	.02697	.11303	7.000	2	.020

d. Formula 4

Tests of Normality

	Stabilitas_pH_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.184	3	.	.999	3	.927
	2	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

Hasil_stabilitas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	4.7667	.07506	.04333	4.5802	4.9531	4.69	4.84
2	3	4.7100	.01000	.00577	4.6852	4.7348	4.70	4.72
Total	6	4.7383	.05707	.02330	4.6784	4.7982	4.69	4.84

Test of Homogeneity of Variances

Hasil_stabilitas

Levene Statistic	df1	df2	Sig.
3.390	1	4	.139

ANOVA

Hasil_stabilitas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.005	1	.005	1.680	.265
Within Groups	.011	4	.003		
Total	.016	5			

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	F4_sebelum - F4_sesudah	.05667	.08021	.04631	-.14258	.25591	1.224	2	.346

Lampiran 32. Hasil SPSS uji stabilitas gel ekstrak bunga telang viskositas

a. Formula 1

Tests of Normality

	Stabilitas_viskositas_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.385	3	.	.750	3	.000
	2	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	6	6916.6667	376.38633	6500.00	7500.00
F1_sebelum	3	7166.6667	288.67513	7000.00	7500.00
F1_sesudah	3	6666.6667	288.67513	6500.00	7000.00

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F1_sebelum	F1_sesudah
N		6	3	3
Normal Parameters[a,b]	Mean	6916.6667	7166.6667	6666.6667
	Std. Deviation	376.38633	288.67513	288.67513
Most Extreme Differences	Absolute	.254	.385	.385
	Positive	.246	.385	.385
	Negative	-.254	-.282	-.282
Test Statistic		.254	.385	.385
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Stabilitas_viskositas_gel_eks	N	Mean Rank
Hasil_stabilitas	1	3	4.67
	2	3	2.33
	Total	6	
F1_sebelum	1	3	2.00
	Total	3[a]	
F1_sesudah	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Hasil_stabilitas
Chi-Square	2.722
df	1
Asymp. Sig.	.099

a. Kruskal Wallis Test

b. Grouping Variable: Stabilitas_viskositas_gel_eks

Test Statistics[a]

	F1_sesudah - F1_sebelum
Z	-1.732[b]
Asymp. Sig. (2-tailed)	.083

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

b. Formula 2

Tests of Normality

	stabilitas_viskositas_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.385	3	.	.750	3	.000
	2	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	6	5916.6667	376.38633	5500.00	6500.00
F2_sebelum	3	6166.6667	288.67513	6000.00	6500.00
F2_sesudah	3	5666.6667	288.67513	5500.00	6000.00

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F2_sebelum	F2_sesudah
N		6	3	3
Normal Parameters[a,b]	Mean	5916.6667	6166.6667	5666.6667
	Std. Deviation	376.38633	288.67513	288.67513
Most Extreme Differences	Absolute	.254	.385	.385
	Positive	.246	.385	.385
	Negative	-.254	-.282	-.282
Test Statistic		.254	.385	.385
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	stabilitas_viskositas_gel_eks	N	Mean Rank
Hasil_stabilitas	1	3	4.67
	2	3	2.33
	Total	6	
F2_sebelum	1	3	2.00
	Total	3[a]	
F2_sesudah	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Hasil_stabilitas
Chi-Square	2.722
df	1
Asymp. Sig.	.099

a. Kruskal Wallis Test

b. Grouping Variable: stabilitas_viskositas_gel_eks

Test Statistics[a]

	F2_sesudah - F2_sebelum
Z	-1.732[b]
Asymp. Sig. (2-tailed)	.083

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Formula 3

Tests of Normality

	Stabilitas_vikositas_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.385	3	.	.750	3	.000
	2	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	6	4916.6667	376.38633	4500.00	5500.00
F3_sebelum	3	5166.6667	288.67513	5000.00	5500.00
F3_sesudah	3	4666.6667	288.67513	4500.00	5000.00

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F3_sebelum	F3_sesudah
N		6	3	3
Normal Parameters[a,b]	Mean	4916.6667	5166.6667	4666.6667
	Std. Deviation	376.38633	288.67513	288.67513
Most Extreme Differences	Absolute	.254	.385	.385
	Positive	.246	.385	.385
	Negative	-.254	-.282	-.282
Test Statistic		.254	.385	.385
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Stabilitas_vikositas_gel_eks	N	Mean Rank
Hasil_stabilitas	1	3	4.67
	2	3	2.33
	Total	6	
F3_sebelum	1	3	2.00
	Total	3[a]	
F3_sesudah	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Hasil_stabilitas
Chi-Square	2.722
df	1
Asymp. Sig.	.099

a. Kruskal Wallis Test

b. Grouping Variable: Stabilitas_vikositas_gel_eks

Test Statistics[a]

	F3_sesudah - F3_sebelum
Z	-1.732[b]
Asymp. Sig. (2-tailed)	.083

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

d. Formula 4

Tests of Normality

	stabilitas_viskositas_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.385	3	.	.750	3	.000
	2	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	6	4083.3333	376.38633	3500.00	4500.00
F4_sebelum	3	4333.3333	288.67513	4000.00	4500.00
F4_sesudah	3	3833.3333	288.67513	3500.00	4000.00

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F4_sebelum	F4_sesudah
N		6	3	3
Normal Parameters[a,b]	Mean	4083.3333	4333.3333	3833.3333
	Std. Deviation	376.38633	288.67513	288.67513
Most Extreme Differences	Absolute	.254	.385	.385
	Positive	.254	.282	.282
	Negative	-.246	-.385	-.385
Test Statistic		.254	.385	.385
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	stabilitas_viskositas_gel_eks	N	Mean Rank
Hasil_stabilitas	1	3	4.67
	2	3	2.33
	Total	6	
F4_sebelum	1	3	2.00
	Total	3[a]	
F4_sesudah	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Hasil_stabilitas
Chi-Square	2.722
df	1
Asymp. Sig.	.099

a. Kruskal Wallis Test

b. Grouping Variable: stabilitas_viskositas_gel_eks

Test Statistics[a]

	F4_sesudah - F4_sebelum
Z	-1.732[b]
Asymp. Sig. (2-tailed)	.083

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

Lampiran 33. Hasil SPSS uji stabilitas gel ekstrak bunga telang daya lekat

a. Formula 1

Tests of Normality

	Stabilitas_dayalekat_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
	2	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Hasil_stabilitas	1	3	1.8667	.01528	.00882	1.8287	1.9046	1.85	1.88
	2	3	1.8600	.01000	.00577	1.8352	1.8848	1.85	1.87
	Total	6	1.8633	.01211	.00494	1.8506	1.8760	1.85	1.88

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	.727	1	4	.442

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hasil_stabilitas	Between Groups	.000	1	.000	.400	.561
	Within Groups	.001	4	.000		
	Total	.001	5			

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 - F2_sesudah	.00667	.00577	.00333	-.00768	.02101	2.000	2	.184

b. Formula 2

Tests of Normality

	stabilitas_dayalekat_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.292	3	.	.923	3	.463
	2	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Hasil_stabilitas	1	3	1.8233	.02082	.01202	1.7716	1.8750	1.80	1.84
	2	3	1.8100	.02000	.01155	1.7603	1.8597	1.79	1.83
	Total	6	1.8167	.01966	.00803	1.7960	1.8373	1.79	1.84

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	.073	1	4	.801

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hasil_stabilitas	Between Groups	.000	1	.000	.640	.469
	Within Groups	.002	4	.000		
	Total	.002	5			

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	F2_sebelum - F2_sesudah	.01333	.00577	.00333	-.00101	.02768	4.000	2	.057

c. Formula 3

Tests of Normality

	Stabilitas_dayalekat_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.253	3	.	.964	3	.637
	2	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Hasil_stabilitas	1	3	1.7633	.01528	.00882	1.7254	1.8013	1.75	1.78
	2	3	1.7500	.01000	.00577	1.7252	1.7748	1.74	1.76
	Total	6	1.7567	.01366	.00558	1.7423	1.7710	1.74	1.78

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	.727	1	4	.442

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hasil_stabilitas	Between Groups	.000	1	.000	1.600	.275
	Within Groups	.001	4	.000		
	Total	.001	5			

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	F3_sebelum - F3_sesudah	.01333	.00577	.00333	-.00101	.02768	4.000	2	.057

d. Formula 4

Tests of Normality

	Stabilitas_dayalekat_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.219	3	.	.987	3	.780
	2	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Hasil_stabilitas	1	3	1.6767	.02517	.01453	1.6142	1.7392	1.65	1.70
	2	3	1.6633	.03055	.01764	1.5874	1.7392	1.63	1.69
	Total	6	1.6700	.02608	.01065	1.6426	1.6974	1.63	1.70

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Hasil_stabilitas	.168	1	4	.703

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Hasil_stabilitas	Between Groups	.000	1	.000	.340	.591
	Within Groups	.003	4	.001		
	Total	.003	5			

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	F4_sebelum - F4_sesudah	.01333	.00577	.00333	-.00101	.02768	4.000	2	.057

Lampiran 34. Hasil SPSS uji stabilitas gel ekstrak bunga telang daya sebar

a. Formula 1

Tests of Normality

	Stabilitas_dayasebar_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.385	3	.	.750	3	.000
	2	.253	3	.	.964	3	.637
	3	.253	3	.	.964	3	.637
	4	.292	3	.	.923	3	.463
	5	.175	3	.	1.000	3	1.000
	6	.314	3	.	.893	3	.363

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	18	3.3667	.29902	2.90	3.90
F1_sebelum_0	3	2.9333	.05774	2.90	3.00
F1_sesudah_0	3	3.2333	.15275	3.10	3.40
F1_sebelum_50	3	3.2667	.15275	3.10	3.40
F1_sesudah_50	3	3.4667	.20817	3.30	3.70
F1_sebelum_100	3	3.6000	.10000	3.50	3.70
F1_sesudah_100	3	3.7000	.26458	3.40	3.90

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F1_sebelum_0	F1_sesudah_0	F1_sebelum_50	F1_sesudah_50	F1_sebelum_100	F1_sesudah_100
N		18	3	3	3	3	3	3
Normal Parameters[a,b]	Mean	3.3667	2.9333	3.2333	3.2667	3.4667	3.6000	3.7000
	Std. Deviation	.29902	.05774	.15275	.15275	.20817	.10000	.26458
Most Extreme Differences	Absolute	.122	.385	.253	.253	.292	.175	.314
	Positive	.122	.385	.253	.196	.292	.175	.225
	Negative	-.100	-.282	-.196	-.253	-.212	-.175	-.314
Test Statistic		.122	.385	.253	.253	.292	.175	.314
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Stabilitas_dayasebar_gel_eks	N	Mean Rank
Hasil_stabilitas	1	3	2.00
	2	3	7.00
	3	3	7.50
	4	3	11.17
	5	3	14.17
	6	3	15.17
	Total	18	
F1_sebelum_0	1	3	2.00
	Total	3[a]	
F1_sesudah_0	1	3	2.00
	Total	3[a]	
F1_sebelum_50	1	3	2.00
	Total	3[a]	
F1_sesudah_50	1	3	2.00
	Total	3[a]	
F1_sebelum_100	1	3	2.00
	Total	3[a]	
F1_sesudah_100	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Hasil_stabilitas
Chi-Square	13.155
df	5
Asymp. Sig.	.022

a. Kruskal Wallis Test

b. Grouping Variable: Stabilitas_dayasebar_gel_eks

Test Statistics[a]

	F1_sesudah_0 - F1_sebelum_0	F1_sesudah_50 - F1_sebelum_50	F1_sesudah_100 - F1_sebelum_100
Z	-1.604[b]	-1.414[b]	-1.089[b]
Asymp. Sig. (2-tailed)	.109	.157	.276

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

b. Formula 2

Tests of Normality[a]

	Stabilitas_dayasebar_gel_eks	Kolmogorov-Smirnov[b]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_dayasebar	2	.253	3	.	.964	3	.637
	3	.253	3	.	.964	3	.637
	4	.175	3	.	1.000	3	1.000
	5	.385	3	.	.750	3	.000
	6	.253	3	.	.964	3	.637

a. Hasil_dayasebar is constant when Stabilitas_dayasebar_gel_eks = 1. It has been omitted.

b. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_dayasebar	18	3.6333	.35314	3.00	4.20
F2_sebelum_0	3	3.0000	.00000	3.00	3.00
F2_sesudah_0	3	3.5333	.15275	3.40	3.70
F2_sebelum_50	3	3.6667	.15275	3.50	3.80
F2_sesudah_50	3	3.7000	.20000	3.50	3.90
F2_sebelum_100	3	3.8667	.05774	3.80	3.90
F2_sesudah_100	3	4.0333	.15275	3.90	4.20

One-Sample Kolmogorov-Smirnov Test

		Hasil_dayasebar	F2_sebelum_0	F2_sesudah_0	F2_sebelum_50	F2_sesudah_50	F2_sebelum_100	F2_sesudah_100
N		18	3	3	3	3	3	3
Normal Parameters[a,b]	Mean	3.6333	3.0000	3.5333	3.6667	3.7000	3.8667	4.0333
	Std. Deviation	.35314	.00000[d]	.15275	.15275	.20000	.05774	.15275
Most Extreme Differences	Absolute	.186		.253	.253	.175	.385	.253
	Positive	.130		.253	.196	.175	.282	.253
	Negative	-.186		-.196	-.253	-.175	-.385	-.196
Test Statistic		.186		.253	.253	.175	.385	.253
Asymp. Sig. (2-tailed)		.100[c]		[c,e]	[c,e]	[c,e]	[c,e]	[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. The distribution has no variance for this variable. One-Sample Kolmogorov-Smirnov Test cannot be performed.

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Stabilitas_dayasebar_gel_eks	N	Mean Rank
Hasil_dayasebar	1	3	2.00
	2	3	6.33
	3	3	8.83
	4	3	9.83
	5	3	13.50
	6	3	16.50
	Total	18	
F2_sebelum_0	1	3	2.00
	Total	3[a]	
F2_sesudah_0	1	3	2.00
	Total	3[a]	
F2_sebelum_50	1	3	2.00
	Total	3[a]	
F2_sesudah_50	1	3	2.00
	Total	3[a]	
F2_sebelum_100	1	3	2.00
	Total	3[a]	
F2_sesudah_100	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Hasil_dayasebar
Chi-Square	14.215
df	5
Asymp. Sig.	.014

a. Kruskal Wallis Test

b. Grouping Variable: Stabilitas_dayasebar_gel_eks

Test Statistics[a]

	F2_sesudah_0 - F2_sebelum_0	F2_sesudah_50 - F2_sebelum_50	F2_sesudah_100 - F2_sebelum_100
Z	-1.604[b]	-.272[b]	-1.342[b]
Asymp. Sig. (2-tailed)	.109	.785	.180

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Formula 3

Tests of Normality

	Stabilitas_dayasebar_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Hasil_stabilitas	1	.175	3	.	1.000	3	1.000
	2	.385	3	.	.750	3	.000
	3	.385	3	.	.750	3	.000
	4	.253	3	.	.964	3	.637
	5	.385	3	.	.750	3	.000
	6	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Hasil_stabilitas	18	3.9889	.39091	3.20	4.60
F3_sebelum_0	3	3.3000	.10000	3.20	3.40
F3_sesudah_0	3	3.9667	.05774	3.90	4.00
F3_sebelum_50	3	3.8667	.05774	3.80	3.90
F3_sesudah_50	3	4.2667	.15275	4.10	4.40
F3_sebelum_100	3	4.0333	.05774	4.00	4.10
F3_sesudah_100	3	4.5000	.10000	4.40	4.60

One-Sample Kolmogorov-Smirnov Test

		Hasil_stabilitas	F3_sebelum_0	F3_sesudah_0	F3_sebelum_50	F3_sesudah_50	F3_sebelum_100	F3_sesudah_100
N		18	3	3	3	3	3	3
Normal Parameters[a,b]	Mean	3.9889	3.3000	3.9667	3.8667	4.2667	4.0333	4.5000
	Std. Deviation	.39091	.10000	.05774	.05774	.15275	.05774	.10000
Most Extreme Differences	Absolute	.188	.175	.385	.385	.253	.385	.175
	Positive	.110	.175	.282	.282	.196	.385	.175
	Negative	-.188	-.175	-.385	-.385	-.253	-.282	-.175
Test Statistic		.188	.175	.385	.385	.253	.385	.175
Asymp. Sig. (2-tailed)		.093[c]	.[c,d]	.[c,d]	.[c,d]	.[c,d]	.[c,d]	.[c,d]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Stabilitas_dayasebar_gel_eks	N	Mean Rank
Hasil_stabilitas	1	3	2.00
	2	3	8.33
	3	3	5.33
	4	3	14.00
	5	3	10.50
	6	3	16.83
	Total	18	
F3_sebelum_0	1	3	2.00
	Total	3[a]	
F3_sesudah_0	1	3	2.00
	Total	3[a]	
F3_sebelum_50	1	3	2.00
	Total	3[a]	
F3_sesudah_50	1	3	2.00
	Total	3[a]	
F3_sebelum_100	1	3	2.00
	Total	3[a]	
F3_sesudah_100	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Hasil_stabilitas
Chi-Square	16.055
df	5
Asymp. Sig.	.007

a. Kruskal Wallis Test

b. Grouping Variable: Stabilitas_dayasebar_gel_eks

Test Statistics[a]

	F3_sesudah_0 - F3_sebelum_0	F3_sesudah_50 - F3_sebelum_50	F3_sesudah_100 - F3_sebelum_100
Z	-1.633[b]	-1.604[b]	-1.633[b]
Asymp. Sig. (2-tailed)	.102	.109	.102

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

d. Formula 4

Tests of Normality

	stabilitas_dayasebar_gel_eks	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil_stabilitas	1	.385	3	.	.750	3	.000
	2	.385	3	.	.750	3	.000
	3	.253	3	.	.964	3	.637
	4	.385	3	.	.750	3	.000
	5	.175	3	.	1.000	3	1.000
	6	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
hasil_stabilitas	18	4.1889	.37868	3.50	4.90
F4_sebelum_0	3	3.5667	.11547	3.50	3.70
F4_sesudah_0	3	4.1333	.05774	4.10	4.20
F4_sebelum_50	3	4.0333	.15275	3.90	4.20
F4_sesudah_50	3	4.3667	.11547	4.30	4.50
F4_sebelum_100	3	4.3000	.10000	4.20	4.40
F4_sesudah_100	3	4.7333	.15275	4.60	4.90

One-Sample Kolmogorov-Smirnov Test

		hasil_stabilitas	F4_sebelum_0	F4_sesudah_0	F4_sebelum_50	F4_sesudah_50	F4_sebelum_100	F4_sesudah_100
N		18	3	3	3	3	3	3
Normal Parameters[a,b]	Mean	4.1889	3.5667	4.1333	4.0333	4.3667	4.3000	4.7333
	Std. Deviation	.37868	.11547	.05774	.15275	.11547	.10000	.15275
Most Extreme Differences	Absolute	.129	.385	.385	.253	.385	.175	.253
	Positive	.107	.385	.385	.253	.385	.175	.253
	Negative	-.129	-.282	-.282	-.196	-.282	-.175	-.196
Test Statistic		.129	.385	.385	.253	.385	.175	.253
Asymp. Sig. (2-tailed)		.200[c,d]	.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]	.[c,e]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

e. Significance can not be computed because sum of case weights is less than 5.

Ranks

	stabilitas_dayasebar_gel_eks	N	Mean Rank
hasil_stabilitas	1	3	2.00
	2	3	7.33
	3	3	6.00
	4	3	13.00
	5	3	11.67
	6	3	17.00
	Total	18	
F4_sebelum_0	1	3	2.00
	Total	3[a]	
F4_sesudah_0	1	3	2.00
	Total	3[a]	
F4_sebelum_50	1	3	2.00
	Total	3[a]	
F4_sesudah_50	1	3	2.00
	Total	3[a]	
F4_sebelum_100	1	3	2.00
	Total	3[a]	
F4_sesudah_100	1	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	hasil_stabilitas
Chi-Square	15.570
df	5
Asymp. Sig.	.008

a. Kruskal Wallis Test

b. Grouping Variable: stabilitas_dayasebar_gel_eks

Test Statistics[a]

	F4_sesudah_0 - F4_sebelum_0	F4_sesudah_50 - F4_sebelum_50	F4_sesudah_100 - F4_sebelum_100
Z	-1.633[b]	-1.604[b]	-1.604[b]
Asymp. Sig. (2-tailed)	.102	.109	.109

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

Lampiran 35. Hasil output SPSS uji aktivitas antibakteri ekstrak bunga telang

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Replikasi	7%	.385	3	.	.750	3	.000
	10%	.385	3	.	.750	3	.000
	13%	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Replikasi	9	13.9444	2.18581	11.00	17.50
Eks7	3	12.0000	.86603	11.00	12.50
Eks10	3	13.1667	.28868	13.00	13.50
Eks13	3	16.6667	.76376	16.00	17.50

One-Sample Kolmogorov-Smirnov Test

		Replikasi	Eks7	Eks10	Eks13
N		9	3	3	3
Normal Parameters[a,b]	Mean	13.9444	12.0000	13.1667	16.6667
	Std. Deviation	2.18581	.86603	.28868	.76376
Most Extreme Differences	Absolute	.247	.385	.385	.253
	Positive	.247	.282	.385	.253
	Negative	-.160	-.385	-.282	-.196
Test Statistic		.247	.385	.385	.253
Asymp. Sig. (2-tailed)		.120[c]	.[c,d]	.[c,d]	.[c,d]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Perlakuan	N	Mean Rank
Replikasi	7%	3	2.00
	10%	3	5.00
	13%	3	8.00
	Total	9	
Eks7	7%	3	2.00
	Total	3[a]	
Eks10	7%	3	2.00
	Total	3[a]	
Eks13	7%	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Replikasi
Chi-Square	7.322
df	2
Asymp. Sig.	.026

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

Lampiran 36. Hasil SPSS uji aktivitas antibakteri formula gel ekstrak bunga telang

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
Replikasi	F1 Gel eks	.385	3	.	.750	3	.000
	F2 Gel eks	.385	3	.	.750	3	.000
	F3 Gel eks	.175	3	.	1.000	3	1.000
	F4 Gel eks	.253	3	.	.964	3	.637
	K(+)	.219	3	.	.987	3	.780
	Eks 13%	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Replikasi	18	14.9722	1.43969	13.50	18.50
F1_gel_eks	3	13.8333	.57735	13.50	14.50
F2_gel_eks	3	14.1667	.28868	14.00	14.50
F3_gel_eks	3	14.5000	1.00000	13.50	15.50
F4_gel_eks	3	14.8333	.76376	14.00	15.50
Kontrol_positif	3	17.3333	1.25831	16.00	18.50
Eks13	3	15.1667	1.52753	13.50	16.50

One-Sample Kolmogorov-Smirnov Test

		Replikasi	F1_gel_eks	F2_gel_eks	F3_gel_eks	F4_gel_eks	Kontrol_positif	Eks13
N		18	3	3	3	3	3	3
Normal Parameters[a,b]	Mean	14.9722	13.8333	14.1667	14.5000	14.8333	17.3333	15.1667
	Std. Deviation	1.43969	.57735	.28868	1.00000	.76376	1.25831	1.52753
Most Extreme Differences	Absolute	.184	.385	.385	.175	.253	.219	.253
	Positive	.184	.385	.385	.175	.196	.189	.196
	Negative	-.153	-.282	-.282	-.175	-.253	-.219	-.253
Test Statistic		.184	.385	.385	.175	.253	.219	.253
Asymp. Sig. (2-tailed)		.109[c]	.[c,d]	.[c,d]	.[c,d]	.[c,d]	.[c,d]	.[c,d]

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. Significance can not be computed because sum of case weights is less than 5.

Ranks

	Perlakuan	N	Mean Rank
Replikasi	F1 Gel eks	3	4.67
	F2 Gel eks	3	7.00
	F3 Gel eks	3	8.17
	F4 Gel eks	3	10.00
	K(+)	3	16.67
	Eks 13%	3	10.50
	Total	18	
F1_gel_eks	F1 Gel eks	3	2.00
	Total	3[a]	
F2_gel_eks	F1 Gel eks	3	2.00
	Total	3[a]	
F3_gel_eks	F1 Gel eks	3	2.00
	Total	3[a]	
F4_gel_eks	F1 Gel eks	3	2.00
	Total	3[a]	
Kontrol_positif	F1 Gel eks	3	2.00
	Total	3[a]	
Eks13	F1 Gel eks	3	2.00
	Total	3[a]	

a. There is only one non-empty group. Kruskal-Wallis Test cannot be performed.

Test Statistics[a,b]

	Replikasi
Chi-Square	9.048
df	5
Asymp. Sig.	.107

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan