

LAMPIRAN

Lampiran 1. Hasil Determinasi



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI
UNIVERSITAS NEGERI SEMARANG
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
LABORATORIUM JURUSAN BIOLOGI

Alamat : Gedung D11 FMIPA UNNES Kampus Sekaran Gunungpati Semarang 50229
website : biologi.unnes.ac.id, email : labbiologi.unnes@yahoo.com

Semarang, 6 Februari 2019

No. : 88 /UN 37.1.4.5/LT/2019
Lampiran : -
Perihal : Hasil identifikasi tumbuhan

Kepada Yth.

Sdr. Farikha Sitra Fuadah – NIM. 33101500365

Mahasiswa Program Studi Farmasi - Fakultas Kedokteran
Universitas Islam Sultan Agung (UNISSULA)
Semarang

Dengan hormat,

Bersama ini kami sampaikan hasil identifikasi tumbuhan yang Saudara kirimkan ke Laboratorium Taksonomi Tumbuhan Jurusan Biologi-FMIPA Universitas Negeri Semarang (UNNES), adalah sebagai berikut.

Divisio : Magnoliophyta
Classis : Magnoliopsida
SubClassis : Rosidae
Ordo : Sapindales
Familia : Sapindaceae
Genus : *Nephelium*
Species : *Nephelium lappaceum* L.
Vern. name : Rambutan

Demikian, semoga berguna bagi Saudara.

Mengetahui
Ketua Jurusan Biologi FMIPA UNNES



Huda Peniati, M.Si.
NIP. 196511161991032001

Kepala Laboratorium Biologi

Dr. Ning Setiati, M.Si.
NIP. 195903101987032001

Lampiran 2. Hasil Uji Kadar Air

Keterangan : Kadar air simplisia ekstrak kental

SHIMADZU CORP.	
TYPE MOC63u	
SN D209402743	
ID 0000	
CODE 0015	
DATE 19-03-14	
TIME 12:31	
PNO. 1	
UNIT M/W	
MODE TIME	
TEMP 120C	
STOP 00:15	
Wet W(g)	0.555
TIME	M/W(%)
00:00:00	0.00
*00:15:00	6.13
Dry W(g)	0.521

Keterangan : Kadar air

SHIMADZU CORP.	
TYPE MOC63u	
SN D209402743	
ID 0000	
CODE 0014	
DATE 19-03-14	
TIME 12:14	
PNO. 1	
UNIT M/W	
MODE TIME	
TEMP 120C	
STOP 00:15	
Wet W(g)	0.447
TIME	M/W(%)
00:00:00	0.00
*00:15:00	5.82
Dry W(g)	0.421

Lampiran 3. Perhitungan Rendemen

Rendemen ekstrak

$$\text{Rendemen} = \frac{\text{berat ekstrak kental}}{\text{bobot sampel}} \times 100\%$$

$$\text{Rendemen} = \frac{279,29 \text{ gram}}{750 \text{ gram}} \times 100\%$$

$$\text{Rendemen} = 37,23 \%$$

Lampiran 4. Hasil Uji Skrining Fitokimia

Parameter Uji	Reagen	Hasil Identifikasi	Metode	Kesimpulan
Flavonoid	Serbuk Mg dan HCl pekat	Warna larutan menjadi jingga	Tabung	Positif
Tanin	FeCl ₃ 5%	Warna hijau kehitaman	Tabung	Positif
Saponin	Aquadest	Terbentuknya buih	Tabung	Positif



YAYASAN BADAN WAKAF SULTAN AGUNG
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
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 email: informasi@unissula.ac.id web: www.unissula.ac.id



PRODI FARMASI FK

Bismillah Membangun Generasi Khalifa Ummah

LAPORAN HASIL UJI

No. Sertifikat : 92/LPF/II/2019

Informasi Peneliti

Nama : Farikha Sitra Fuadah Tanggal Pengujian: 1 Maret 2019

NIM : 33101500365

Hasil Pengujian

Skrining Fitokimia Ekstrak Etanolik Kulit Buah Rambutan
 (*Nephelium Lappaceum L.*):

Parameter Uji	Reagen	Hasil Identifikasi	Metode	Kesimpulan
Flavonoid	Serbuk Mg dan HCl pekat	Warna larutan menjadi jingga	Tabung	Positif
Tanin	FeCl ₃ 5%	Warna hijau kehitaman	Tabung	Positif
Saponin	Aquadest	Terbentuknya buih	Tabung	Positif

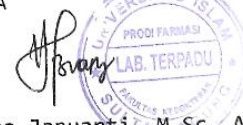
Semarang, 4 Maret 2019

Laboran Prodi Farmasi
 FK UNISSULA

%

Ivani Putri A, Amd. AK

Kepala Laboratorium Prodi Farmasi
 FK UNISSULA



Ika Buana Januari, M.Sc., Apt
 NIK. 211213007

Lampiran 5. Analisa Data

1. Analisa Data Uji Fisik

a. Uji pH

Tests of Normality^b

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Basis	.292	3	.	.923	3	.463
Formula 5%	.385	3	.	.750	3	.000
Formula 10%	.175	3	.	1.000	3	1.000
Formula 15%	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

b. Pembanding is constant. It has been omitted.

Oneway

[DataSet1]

Test of Homogeneity of Variances

PERLAKUAN			
Levene Statistic	df1	df2	Sig.
4.368	4	10	.027

ANOVA

PERLAKUAN					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.420	4	.855	49.327	.000
Within Groups	.173	10	.017		
Total	3.593	14			

Kruskal-Wallis

Ranks

HASIL		N	Mean Rank
PERLAKUAN	PEMBANDING	3	11.00
	BASIS	3	2.50
	FORMULA 5%	3	4.50
	FORMULA 10%	3	8.00
	FORMULA 15%	3	14.00
	Total	15	

Test Statistics^{a,b}

	PERLAKUAN
Chi-Square	13.291
df	4
Asymp. Sig.	.010

a. Kruskal Wallis Test

b. Grouping Variable: HASIL

Mann-Whitney

Ranks

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	5.00	15.00
	BASIS	3	2.00	6.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.087
Asymp. Sig. (2-tailed)	.037
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	5.00	15.00
	FORMULA 5%	3	2.00	6.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.121
Asymp. Sig. (2-tailed)	.034
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	5.00	15.00
	FORMULA 10%	3	2.00	6.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.087
Asymp. Sig. (2-tailed)	.037
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	3.00	9.00
	FORMULA 15%	3	4.00	12.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	3.000
Wilcoxon W	9.000
Z	-.696
Asymp. Sig. (2-tailed)	.487
Exact Sig. [2*(1-tailed Sig.)]	.700 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2.50	7.50
	FORMULA 5%	3	4.50	13.50
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	1.500
Wilcoxon W	7.500
Z	-1.348
Asymp. Sig. (2-tailed)	.178
Exact Sig. [2*(1-tailed Sig.)]	.200 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2.00	6.00
	FORMULA 10%	3	5.00	15.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2,00	6,00
	FORMULA 15%	3	5,00	15,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 5%	3	2,00	6,00
	FORMULA 10%	3	5,00	15,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 5%	3	2,00	6,00
	FORMULA 15%	3	5,00	15,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-2,023
Asymp. Sig. (2-tailed)	.043
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 10%	3	2,00	6,00
	FORMULA 15%	3	5,00	15,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

b. VISKOSITAS

Oneway

[DataSet0]

Test of Homogeneity of Variances

PERLAKUAN			
Levene Statistic	df1	df2	Sig.
2,575	4	10	.103

ANOVA

PERLAKUAN					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	223652,629	4	55913,157	5,083E3	.000
Within Groups	110,000	10	11,000		
Total	223762,629	14			

→ ONEWAY A BY B
/STATISTICS HOMOGENEITY
/MISSING ANALYSIS.

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
PEMBANDING	.385	3	.	.750	3	.000
BASIS	.314	3	.	.893	3	.363
FORMULA 5%	.253	3	.	.964	3	.637
FORMULA 10%	.385	3	.	.750	3	.000
FORMULA 15%	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Kruskal-Wallis

Ranks

		HASIL	N	Mean Rank
PERLAKUAN	PEMBANDING		3	13,00
	BASIS		3	8,17
	FORMULA 5%		3	8,83
	FORMULA 10%		3	4,00
	FORMULA 15%		2	1,50
Total			14	

Test Statistics^{a,b}

		PERLAKUAN
Chi-Square		11,859
df		4
Asymp. Sig.		.018

a. Kruskal Wallis Test
b. Grouping Variable: HASIL

Mann-Whitney

Ranks

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	5.00	15.00
	BASIS	3	2.00	6.00
Total		6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	5.00	15.00
	FORMULA 5%	3	2.00	6.00
Total		6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	5.00	15.00
	FORMULA 10%	3	2.00	6.00
Total		6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.023
Asymp. Sig. (2-tailed)	.043
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	5,00	15,00
	FORMULA 15%	3	2,00	6,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	5,00	15,00
	FORMULA 5%	3	2,00	6,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	5,00	15,00
	FORMULA 10%	3	2,00	6,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	5,00	15,00
	FORMULA 15%	3	2,00	6,00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

→ **Mann-Whitney**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 5%	3	3.50	10.50
	FORMULA 10%	3	3.50	10.50
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		4.500
Wilcoxon W		10.500
Z		.000
Asymp. Sig. (2-tailed)		1.000
Exact Sig. [2*(1-tailed Sig.)]		1.000 ^a

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

Mann-Whitney

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 5%	3	5.00	15.00
	FORMULA 15%	3	2.00	6.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.964
Asymp. Sig. (2-tailed)		.050
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

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

Mann-Whitney

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 10%	3	5.00	15.00
	FORMULA 15%	3	2.00	6.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.993
Asymp. Sig. (2-tailed)		.046
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

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

c. DAYA SEBAR

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
PEMBANDING	.385	3	.	.750	3	.000
BASIS	.385	3	.	.750	3	.000
FORMULA 5%	.253	3	.	.964	3	.637
FORMULA 10%	.175	3	.	1.000	3	1.000
FORMULA 15%	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Oneway

[DataSet3]

Test of Homogeneity of Variances

PERLAKUAN			
Levene Statistic	df1	df2	Sig.
3.731	4	10	.042

ANOVA

PERLAKUAN					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.569	4	2.142	80.338	.000
Within Groups	.267	10	.027		
Total	8.836	14			

Kruskal-Wallis

Ranks

PERLAKUAN		HASIL	N	Mean Rank
	PEMBANDING		3	8.17
	BASIS		3	2.00
	FORMULA 5%		3	5.00
	FORMULA 10%		3	10.83
	FORMULA 15%		3	14.00
	Total		15	

Test Statistics^{a,b}

PERLAKUAN	
Chi-Square	13.454
df	4
Asymp. Sig.	.009

a. Kruskal Wallis Test

b. Grouping Variable: HASIL

Mann-Whitney

Ranks

PERLAKUAN		HASIL	N	Mean Rank	Sum of Ranks
	PEMBANDING		3	5.00	15.00
	BASIS		3	2.00	6.00
	Total		6		

Test Statistics^b

PERLAKUAN	
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.023
Asymp. Sig. (2-tailed)	.043
Exact Sig. [2*(1-tailed Sig.)]	.100*

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks

PERLAKUAN		HASIL	N	Mean Rank	Sum of Ranks
	PEMBANDING		3	5.00	15.00
	FORMULA 5%		3	2.00	6.00
	Total		6		

Test Statistics^b

PERLAKUAN	
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100*

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	2.17	6.50
	FORMULA 10%	3	4.83	14.50
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.500
Wilcoxon W		6.500
Z		-1.798
Asymp. Sig. (2-tailed)		.072
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	PEMBANDING	3	2.00	6.00
	FORMULA 15%	3	5.00	15.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.023
Asymp. Sig. (2-tailed)		.043
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2.00	6.00
	FORMULA 5%	3	5.00	15.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.023
Asymp. Sig. (2-tailed)		.043
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2.00	6.00
	FORMULA 10%	3	5.00	15.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.993
Asymp. Sig. (2-tailed)		.046
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2.00	6.00
	FORMULA 15%	3	5.00	15.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.023
Asymp. Sig. (2-tailed)	.043
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 5%	3	2.00	6.00
	FORMULA 10%	3	5.00	15.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 5%	3	2.00	6.00
	FORMULA 15%	3	5.00	15.00
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

Mann-Whitney**Ranks**

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	FORMULA 5%	3	2.50	7.50
	FORMULA 15%	3	4.50	13.50
	Total	6		

Test Statistics^b

	PERLAKUAN
Mann-Whitney U	1.500
Wilcoxon W	7.500
Z	-1.348
Asymp. Sig. (2-tailed)	.178
Exact Sig. [2*(1-tailed Sig.)]	.200 ^a

a. Not corrected for ties.

b. Grouping Variable: HASIL

2. Analisa Data Antibakteri

Tests of Normality^{a,c}

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
K+1	.385	3	.	.750	3	.000
K+2	.253	3	.	.964	3	.637
K1	.232	3	.	.980	3	.726
K2	.349	3	.	.832	3	.194
K3	.385	3	.	.750	3	.000
F1	.339	3	.	.850	3	.241
F2	.385	3	.	.750	3	.000
F3	.276	3	.	.942	3	.537

- a. Lilliefors Significance Correction
 b. K-1 is constant. It has been omitted.
 c. K-2 is constant. It has been omitted.

Test of Homogeneity of Variances

PERLAKUAN			
Leverge Statistic	df1	df2	Sig.
3.889	9	20	.005

ANOVA

PERLAKUAN					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1845.095	9	205.011	435.266	.000
Within Groups	9.420	20	.471		
Total	1854.515	29			

Kruskal-Wallis

Ranks

	HA	N	Mean Rank
PERLAKUAN	K+1	3	26.17
	K+2	3	15.67
	K1	3	10.67
	K2	3	18.83
	K3	3	22.33
	F1	3	8.33
	F2	3	17.17
	F3	3	28.83
	K-1	3	3.50
	K-2	3	3.50
	Total	30	

Test Statistics^{a,b}

	PERLAKUAN
Chi-Square	27.940
df	9
Asymp. Sig.	.001

- a. Kruskal-Wallis Test
 b. Grouping Variable: HASIL

Klindamycin vs DMSO

Mann-Whitney

Ranks

	HASIL	N	Mean Rank	Sum of Ranks
PERLAKUAN	KLINDAMYCIN	3	5.00	15.00
	DMSO	3	2.00	6.00
	Total	6		

Test Statistics^a

	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.121
Asymp. Sig. (2-tailed)	.034
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

- a. Not corrected for ties.
 b. Grouping Variable: HASIL

Klindamycin VS Basis

Mann-Whitney

Ranks				
PERLAJUAN	HASIL	N	Mean Rank	Sum of Ranks
	KLINDAMYCIN	3	5,00	15,00
	BASIS	3	2,00	6,00
	Total	6		

Test Statistics ^a	
	PERLAJUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-2,121
Asymp. Sig. (2-tailed)	.034
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

Klindamycin VS Nourish

Mann-Whitney

Ranks				
PERLAJUAN	HASIL	N	Mean Rank	Sum of Ranks
	KLINDAMYCIN	3	5,00	15,00
	NOURISH	3	2,00	6,00
	Total	6		

Test Statistics ^b	
	PERLAJUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

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

Klindamycin VS F1

Mann-Whitney

Ranks				
PERLAJUAN	HASIL	N	Mean Rank	Sum of Ranks
	KLINDAMYCIN	3	5,00	15,00
	F1	3	2,00	6,00
	Total	6		

Test Statistics ^b	
	PERLAJUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

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

Klindamycin VS K1

Mann-Whitney

Ranks				
PERLAJUAN	HASIL	N	Mean Rank	Sum of Ranks
	KLINDAMYCIN	3	5,00	15,00
	EkSTRAK 5%	3	2,00	6,00
	Total	6		

Test Statistics ^b	
	PERLAJUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^a

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

DMSO VS Basis

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAKUAN	DMSO	3	3.50	10.50
	BASIS	3	3.50	10.50
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		4.500
Wilcoxon W		10.500
Z		.000
Asymp. Sig. (2-tailed)		1.000
Exact Sig. [2*(1-tailed Sig.)]		1.000 ^a

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

DMSO VS Nourish

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAKUAN	DMSO	3	2.00	6.00
	NOURISH	3	5.00	15.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.087
Asymp. Sig. (2-tailed)		.037
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

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

DMSO VS F1

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAKUAN	DMSO	3	2.00	6.00
	F1	3	5.00	15.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.087
Asymp. Sig. (2-tailed)		.037
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

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

DMSO VS K1

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAKUAN	DMSO	3	2.00	6.00
	EKSTRAK 5%	3	5.00	15.00
	Total	6		

Test Statistics ^b		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.087
Asymp. Sig. (2-tailed)		.037
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

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

BASIS vs F1

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAJUAN	BASIS	3	2.00	6.00
	F1	3	5.00	15.00
	Total	6		

Test Statistics ^a	
	PERLAJUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.087
Asymp. Sig. (2-tailed)	.037
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

- a. Not corrected for ties.
b. Grouping Variable: HASIL

Basis VS K1

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAJUAN	BASIS	3	2.00	6.00
	2	3	5.00	15.00
	Total	6		

Test Statistics ^a	
	PERLAJUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.087
Asymp. Sig. (2-tailed)	.037
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

- a. Not corrected for ties.
b. Grouping Variable: HASIL

Basis VS Nourish

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAJUAN	BASIS	3	2.00	6.00
	NOURISH	3	5.00	15.00
	Total	6		

Test Statistics ^a	
	PERLAJUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-2.087
Asymp. Sig. (2-tailed)	.037
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

- a. Not corrected for ties.
b. Grouping Variable: HASIL

F1 VS K1

Mann-Whitney

Ranks				
	HASIL	N	Mean Rank	Sum of Ranks
PERLAJUAN	F1	3	2.33	7.00
	EKSTRAK 5%	3	4.67	14.00
	Total	6		

Test Statistics ^a	
	PERLAJUAN
Mann-Whitney U	1.000
Wilcoxon W	7.000
Z	-1.528
Asymp. Sig. (2-tailed)	.127
Exact Sig. [2*(1-tailed Sig.)]	.200 ^b

- a. Not corrected for ties.
b. Grouping Variable: HASIL

Nourish VS K1

Mann-Whitney

Ranks				
HASIL	N	Mean Rank	Sum of Ranks	
PERLAKUAN NOURISH	3	5,00	15,00	
EKSTRAK 5%	3	2,00	6,00	
Total	6			

Test Statistics ^b	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [Z*(1-tailed Sig.)]	.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

NOURISH VS F1

Mann-Whitney

Ranks				
HASIL	N	Mean Rank	Sum of Ranks	
PERLAKUAN NOURISH	3	5,00	15,00	
FORMULA 5%	3	2,00	6,00	
Total	6			

Test Statistics ^b	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [Z*(1-tailed Sig.)]	.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

KLINDAMYCIN VS F2

Mann-Whitney

Ranks				
HASIL	N	Mean Rank	Sum of Ranks	
PERLAKUAN KLINDAMYCIN	3	5,00	15,00	
F2	3	2,00	6,00	
Total	6			

Test Statistics ^b	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-2,023
Asymp. Sig. (2-tailed)	.043
Exact Sig. [Z*(1-tailed Sig.)]	.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

KLINDAMYCIN VS K2

Mann-Whitney

Ranks				
HASIL	N	Mean Rank	Sum of Ranks	
PERLAKUAN KLINDAMYCIN	3	5,00	15,00	
EKSTRAK 10%	3	2,00	6,00	
Total	6			

Test Statistics ^b	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [Z*(1-tailed Sig.)]	.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

DMSO VS K2

Mann-Whitney

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	DMSO	3	3.00	9.00
	EKSTRAK 10%	3	4.00	12.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		3.000
Wilcoxon W		9.000
Z		-.664
Asymp. Sig. (2-tailed)		.507
Exact Sig. [2*(1-tailed Sig.)]		.700 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

DMSO VS F2

Mann-Whitney

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	DMSO	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.087
Asymp. Sig. (2-tailed)		.037
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

BASIS VS F2

Mann-Whitney

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.087
Asymp. Sig. (2-tailed)		.037
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

BASIS VS K2

Mann-Whitney

HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2.00	6.00
	EKSTRAK 10%	3	5.00	15.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.087
Asymp. Sig. (2-tailed)		.037
Exact Sig. [2*(1-tailed Sig.)]		.100 ^a

- a. Not corrected for ties.
b. Grouping Variable: HASIL

NOURISH VS F2

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	NOURIST	3	3.00	9.00
	F2	3	4.00	12.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		3.000
Wilcoxon W		9.000
Z		-.696
Asymp. Sig. (2-tailed)		.487
Exact Sig. [2*(1-tailed Sig.)]		.700 ^b

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

NOURISH VS K2

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	NOURIST	3	2.67	8.00
	EKSTRAK 10%	3	4.33	13.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		2.000
Wilcoxon W		8.000
Z		-1.091
Asymp. Sig. (2-tailed)		.275
Exact Sig. [2*(1-tailed Sig.)]		.400 ^b

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

F2 VS K2

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	F2	3	2.00	6.00
	EKSTRAK 10%	3	5.00	15.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.993
Asymp. Sig. (2-tailed)		.046
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

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

DMSO VS K3

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	DMSO	3	2.00	6.00
	EKSTRAK 15%	3	5.00	15.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.121
Asymp. Sig. (2-tailed)		.034
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

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

BASIS VS K3

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	BASIS	3	2,00	6,00
	EKSTRAK 15%	3	5,00	15,00
	Total	6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-2,121
Asymp. Sig. (2-tailed)	.034
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

DMSO VS F3

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	DMSO	3	2,00	6,00
	F3	3	5,00	15,00
	Total	6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-2,087
Asymp. Sig. (2-tailed)	.037
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

KLINDAMYCIN VS K3

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	KLINDAMYCIN	3	5,00	15,00
	EKSTRAK 15%	3	2,00	6,00
	Total	6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-2,023
Asymp. Sig. (2-tailed)	.043
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

KLINDAMYCIN VS F3

Mann-Whitney

Ranks				
HASIL		N	Mean Rank	Sum of Ranks
PERLAKUAN	KLINDAMYCIN	3	2,17	6,50
	F3	3	4,83	14,50
	Total	6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.500
Wilcoxon W	6,500
Z	-1,798
Asymp. Sig. (2-tailed)	.072
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

BASIS VS F3

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	BASIS	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-2.087
Asymp. Sig. (2-tailed)		.037
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

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

NOURISH VS F3

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	NOURISH	3	2.00	6.00
	F3	2	4.50	9.00
	Total	5		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.732
Asymp. Sig. (2-tailed)		.083
Exact Sig. [2*(1-tailed Sig.)]		.200 ^b

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

NOURISH VS K3

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	NOURISH	3	2.00	6.00
	K3	3	5.00	15.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6.000
Z		-1.983
Asymp. Sig. (2-tailed)		.046
Exact Sig. [2*(1-tailed Sig.)]		.100 ^b

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

F3 VS K3

Mann-Whitney

Ranks				
PERLAKUAN	HASIL	N	Mean Rank	Sum of Ranks
	F3	3	4.00	12.00
	K3	3	3.00	9.00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		3.000
Wilcoxon W		9.000
Z		-.664
Asymp. Sig. (2-tailed)		.507
Exact Sig. [2*(1-tailed Sig.)]		.700 ^b

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

K1 VS K2

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K1	3	2,00	6,00
	K2	3	5,00	15,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. (2*(1-tailed Sig.))	.100 ^b

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

K1 VS K3

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K1	3	2,00	6,00
	K3	3	5,00	15,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. (2*(1-tailed Sig.))	.100 ^b

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

K1 VS F1

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K1	3	4,67	14,00
	F1	3	2,33	7,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	1,000
Wilcoxon W	7,000
Z	-1,528
Asymp. Sig. (2-tailed)	.127
Exact Sig. (2*(1-tailed Sig.))	.200 ^b

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

K1 VS F2

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K1	3	2,00	6,00
	F2	3	5,00	15,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. (2*(1-tailed Sig.))	.100 ^b

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

K2 VS K3**Mann-Whitney**

Ranks				
	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K2	3	2,33	7,00
	K3	3	4,67	14,00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		1,000
Wilcoxon W		7,000
Z		-1,550
Asymp. Sig. (2-tailed)		.121
Exact Sig. (2*(1-tailed Sig.))		.200*

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

K2 VS F1**Mann-Whitney**

Ranks				
	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K2	3	5,00	15,00
	F1	3	2,00	6,00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6,000
Z		-1,964
Asymp. Sig. (2-tailed)		.050
Exact Sig. (2*(1-tailed Sig.))		.100*

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

K2 VS F3**Mann-Whitney**

Ranks				
	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K2	3	2,00	6,00
	F3	3	5,00	15,00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6,000
Z		-1,964
Asymp. Sig. (2-tailed)		.050
Exact Sig. (2*(1-tailed Sig.))		.100*

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

K3 VS F1**Mann-Whitney**

Ranks				
	HA	N	Mean Rank	Sum of Ranks
PERLAKUAN	K3	3	5,00	15,00
	F1	3	2,00	6,00
	Total	6		

Test Statistics ^a		PERLAKUAN
Mann-Whitney U		.000
Wilcoxon W		6,000
Z		-1,993
Asymp. Sig. (2-tailed)		.046
Exact Sig. (2*(1-tailed Sig.))		.100*

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

K3 VS F2

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
K3		3	4,67	14,00
F2		3	2,33	7,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	1,000
Wilcoxon W	7,000
Z	-1,573
Asymp. Sig. (2-tailed)	.116
Exact Sig. [2*(1-tailed Sig.)]	.200 ^b

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

K3 VS F3

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
K3		3	2,00	6,00
F3		3	5,00	15,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

F1 VS F2

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
F1		3	2,00	6,00
F2		3	5,00	15,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

F1 VS F3

Mann-Whitney

Ranks				
PERLAKUAN	HA	N	Mean Rank	Sum of Ranks
F1		3	2,00	6,00
F3		3	5,00	15,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

F2 VS F3**Mann-Whitney**

Ranks				
PERLAKUAN	Ha...	N	Mean Rank	Sum of Ranks
F2		3	2,00	6,00
F3		3	5,00	15,00
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

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

K2 VS F2**Mann-Whitney**

Ranks				
PERLAKUAN	Ha...	N	Mean Rank	Sum of Ranks
K2		3	4,17	12,50
F2		3	2,83	8,50
Total		6		

Test Statistics ^a	
	PERLAKUAN
Mann-Whitney U	2.500
Wilcoxon W	8.500
Z	-.999
Asymp. Sig. (2-tailed)	.369
Exact Sig. [2*(1-tailed Sig.)]	.400 ^b

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

Lampiran 6. *Ethical Clearance*

**KOMISI BIOETIKA PENELITIAN KEDOKTERAN/KESEHATAN
FAKULTAS KEDOKTERAN
UNIVERSITAS ISLAM SULTAN AGUNG SEMARANG**

Sekretariat : Gedung C Lantai I Fakultas Kedokteran Unissula
Jl. Raya Kaligawe Km 4 Semarang, Telp. 024-6583584, Fax 024-6594366

Ethical Clearance

No. 106/II/2019/Komisi Bioetik

Komisi Bioetika Penelitian Kedokteran/Kesehatan Fakultas Kedokteran Universitas Islam Sultan Agung Semarang, setelah melakukan pengkajian atas usulan penelitian yang berjudul :

UJI FISIK DAN AKTIVITAS SEDIAAN GEL ANTI ACNE EKSTRAK ETANOL KULIT BUAH RAMBUTAN (*Nephelium lappaceum* L.) TERHADAP BAKTERI *Propionibacterium acnes* SECARA *IN VITRO*

Peneliti Utama : Farikha Sitra Faudah
Pembimbing : Rina Wijayanti, M.Sc., Apt
Dr. Naniek Widyaningrum, M. Sc., Apt
Tempat Penelitian : Laboratorium Farmasi FK Unissula
Laboratorium Mikrobiologi FK Unissula
Laboratorium Biologi FMIPA UNNES

dengan ini menyatakan bahwa usulan penelitian diatas telah memenuhi prasyarat etik penelitian. Oleh karena itu Komisi Bioetika merekomendasikan agar penelitian ini dapat dilaksanakan dengan mempertimbangkan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki dan panduan yang tertuang dalam Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI tahun 2004.

Semarang, 14 Februari 2019

Komisi Bioetika Penelitian Kedokteran/Kesehatan
Fakultas Kedokteran Unissula


(dr. Sofwan Dahlan, Sp.F(K))

Lampiran 7. Dokumentasi Penelitian



Gambar 1. Bahan Baku Buah Rambutan



Gambar 2. Pemisahan Kulit dengan Buahnya



Gambar 3. Pencucian Kulit Rambutan



Gambar 4. Sortasi Basah



Gambar 5. Penimbangan Kulit Rambutan



Gambar 6. Kulit Rambutan di Potong Kecil-kecil



Gambar 7. Rapikan Di Rak Pengering



Gambar 8. Diletakan Di Lemari Pengering



Gambar 9. Cek Kadar Air



Gambar 10. Simplisia Kering di Timbang



Gambar 13. Simplisia Halus di Timbang



Gambar 14. Simplisia Di Maserasi



Gambar 15. Simplisia Proses Maserasi



Gambar 16. Penyaringan Hasil Maserasi



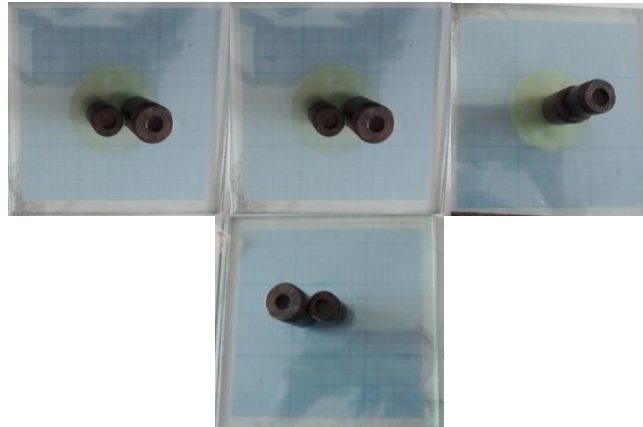
Gambar 17. Hasil Maserasi



Gambar 18. Hasil Maserasi di Rotary



Gambar 17. Hasil Pembuatan Gel



Gambar 18. Hasil Uji Daya Sebar



Gambar 19. Hasil Uji pH



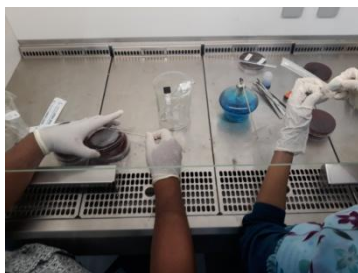
Gambar 20. Hasil Uji Viskositas



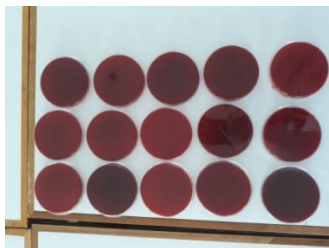
Gambar 21. Sterilisasi Alat



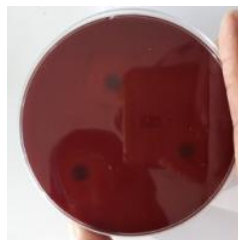
Gambar 22. Pengenceran Ekstrak

Gambar 23. Uji aktivitas antibakteri:
Apusan bakteri pada permukaan medium

Gambar 24. Pembuatan Suspensi Bakteri



Gambar 25. Media Uji

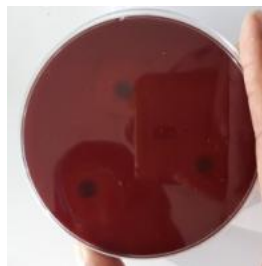
Gmabar 26. Hasil Uji Antibakteri Kontrol
Positif NourishGambar 27. Hasil Uji Antibakteri Kontrol
Positif KlindamycinGambar 28. Hasil Uji Antibakteri Ekstrak
5%



Gambar 29. Hasil Uji Antibakteri Ekstrak
10%



Gmabar 30. Hasil Uji Antibakteri Ekstrak
15%



Gambar 31. Hasil Uji Klindamycin



Gambar 32. Hasil Uji Antibakteri Ekstrak
5%



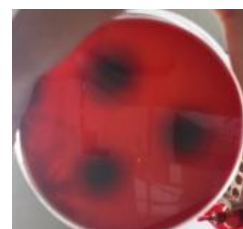
Gambar 33. Hasil Uji DMSO



Gambar 34. Hasil Uji Basis



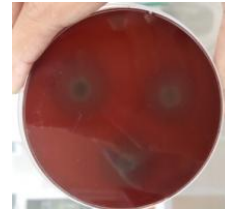
Gambar 35. Hasil Uji Antibakteri Formula
5%



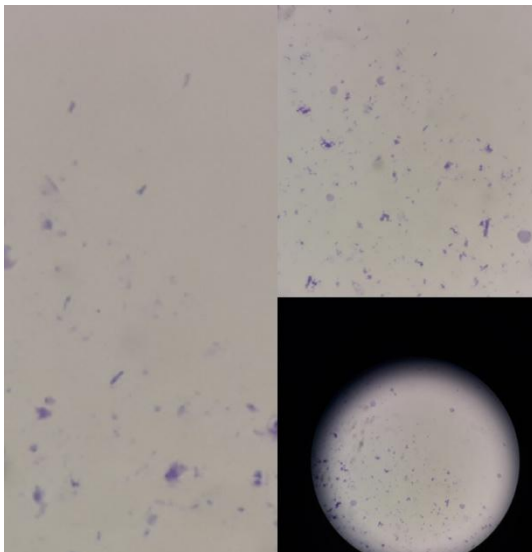
Gambar 36. Hasil Uji Antibakteri Formula
10%



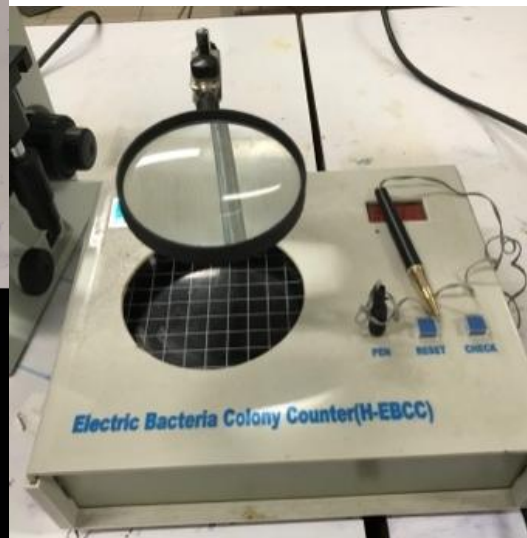
Gambar 37. Hasil Uji Antibakteri Formula 10%



Gambar 38. Hasil Uji Antibakteri Formula 15%



Gambar 39. Hasil Identifikasi Bakteri



Gambar 40. Pengamatan Hasil Uji



Gambar 41. Jangka sorong

Lampiran 8. Hasil Uji Efektivitas Antibakteri



**YAYASAN BADAN WAKAF SULTAN AGUNG
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
FAKULTAS KEDOKTERAN**

Jl. Raya Kaligawe Km. 4 P.O. Box. 1054 Telp. (024) 6583584 Fax. (024) 6594366 Semarang 50112

Lampiran : 1 lembar

HASIL PENELITIAN

Sample	Zona Hambat			
	Replikasi I	Replikasi II	Replikasi III	Rata - rata
Gel 5 %	14,20 mm	12,00 mm	12,30 mm	12,83 mm
Gel 10 %	18,00 mm	18,00 mm	19,00 mm	18,33 mm
Gel 15 %	23,90 mm	23,50 mm	22,50 mm	23,30 mm
Basis gel	0 mm	0 mm	0 mm	0 mm
Kontrol + A	18,00 mm	18,50 mm	17,00 mm	17,83 mm
Kontrol + B	22,50 mm	20,80 mm	20,80 mm	21,36 mm
Kontrol + C	0 mm	0 mm	0 mm	0 mm
Ekstrak 5 %	14,00 mm	14,50 mm	14,80 mm	14,43 mm
Ekstrak 10 %	18,20 mm	18,10 mm	19,00 mm	18,43 mm
Ekstrak 15 %	18,80 mm	20,00 mm	20,00 mm	19,60 mm

Semarang, 25 Maret 2018
Mengetahui,
Kepala Lab. Mikrobiologi Klinik
Fakultas Kedokteran UNISSULA Semarang

