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Lampiran 1. Determinasi tanaman



UPT-LABORATORIUM

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Nomor : 291/DET/UPT-LAB/25.10.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

Nama Pemesan : Rahmah Nurfauziah
NIM : 24185631A
Alamat : Program Studi S-1 Farmasi,
Universitas Setia Budi, Surakarta
Nama sampel : Katuk/ *Sauropus androgynus* (L.) Merr.

IIASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida
Ordo : Euphorbiales
Famili : Euphorbiaceae
Genus : *Sauropus*
Species : *Sauropus androgynus* (L.) Merr.

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

1b 2b 3b 4b 12b 13b 14b 17b - 18b 19b 20b 21b 22b 23b 24b 25b
- 26b - 27a - 28b - 29b - 30b - 31a - 32b - 74a - 75b - 76a - 77a - 78a - 79b - 80a - 81b -
86b - 87b - 97a - 98b - 99b - 100b - 143b - 147b - 156a. 99. Familia Euphorbiaceae. 1b -
3b - 4b - 6a - 7b - 8b - 10b - 13b - 15b - 25a - 26b - 27b - 28a.12. *Sauropus* Bl. 1a - 2a.
Sauropus androgynus (L.) Merr.

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Deskripsi:

Habitus : Semak, menahun.

Akar : Sistem akar tunggang.

Batang : Bulat, tegak atau merayap.

Daun : Daun berseling, bangun lonjong (oblongus), ujung runcing, pangkal tumpul, tepi daun rata, pertulangan daun menyirip, permukaan atas hijau tua, panjang 1,7 – 4,6 cm, lebar 1,6 – 3,2 cm. Terdapat stipula.

Bunga : Bunga aksiler. Bunga jantan tidak mempunyai mahkota, kelopak terdiri dari 6 daun kelopak yang tersusun dalam 2 lingkaran, berwarna merah tua. Stamen 3, *conatus*, anther vertical. Bunga betina tidak mempunyai mahkota, bentuk bundar (*orbicularis*), kelopak terdiri dari 6 lobi, berwarna merah tua dan permukaan bawah berwarna kekuningan.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 25 Oktober 2021

Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati. M.Sc.

Lampiran 2. Foto bahan dan alat pembuatan ekstrak



Daun Katuk



Blender



Proses pengeringan daun katuk



Ayakan/mesh no.60



Menimbang serbuk



Serbuk daun katuk



Modifikasi *waterbath*



Panci infus



Berat ekstrak daun katuk



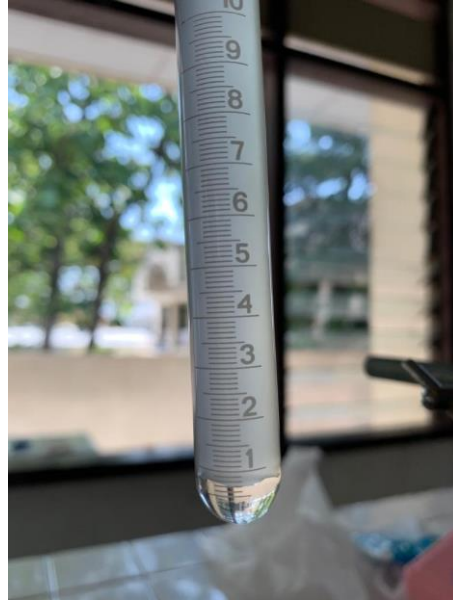
Ekstrak kental daun katuk

Lampiran 3. Hasil karakterisasi bahan alam

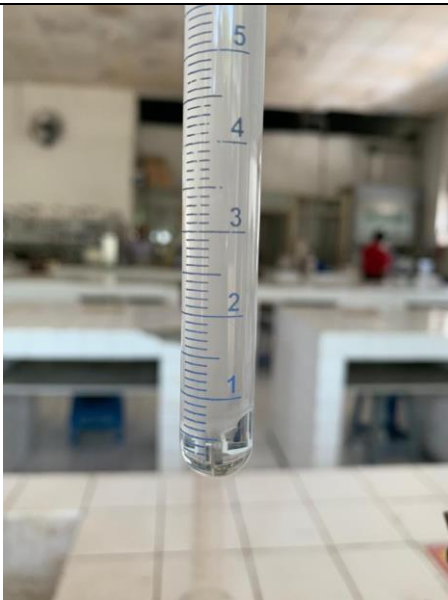
1. Uji kadar air serbuk



Replikasi 1



Replikasi 2



Replikasi 3

2. Uji susut pengeringan ekstrak



Replikasi 1



Replikasi 2



Replikasi 3

Lampiran 4. Identifikasi kandungan kimia



Flavonoid



Saponin



Tanin



Terpenoid



Alkaloid (Mayer)



Alkaloid (Dragendorff)

Lampiran 5. Pemeriksaan mutu fisik dan stabilitas sediaan



Formulasi sediaan obat kumur



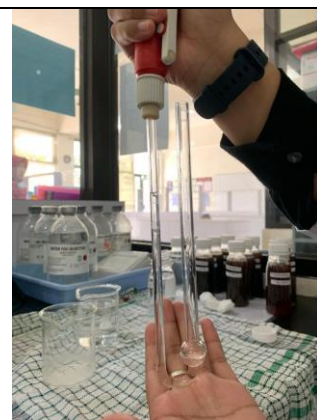
Pemeriksaan pH



Berat jenis



Pemeriksaan organoleptis



Pemeriksaan viskositas

Lampiran 6. Sertifikat bakteri *Streptococcus mutans* ATCC 25175

PRO - Technology
Laboratorium Uji Mikrobiologi
Jalan Cempaka Putih No.69 - Jakarta Pusat
Indonesia

SERTIFIKAT HASIL UJI

1. Bakteri : Stock Strain *Streptococcus mutans* ATCC 25175
2. Nomor Uji Bakteri : V. 1. 5.
3. Tanggal Uji bakteri : 7 - 11 Desember 2020

Uraian Hasil Uji

Strain V. 1. 5. Biakan Murni dari *Streptococcus mutans* ATCC 25175

I. Ciri-ciri koloni :


1. Pewarnaan Gram : Sel bulat, kecil-kecil, tersusun seperti rantai, berwarna ungu, termasuk Gram positif.
2. Di tanam pada media Muller Hinton Agar : Koloni bulat kecil, berwarna putih, dan permukaan koloni datar kering.
3. Di tanam pada media Agar Darah : Koloni warna putih keruh, disekitar koloni berwarna merah.

II. Uji Fermentasi Karbohidrat dan Biokimia Penegasan

Uji Fermentasi Karbohidrat			Uji Fisiologis	
Glukosa	Asam (+)	Gas (-)	Katalase	(+) timbul gelembung gas
Laktosa	Asam (+)	Gas (-)	Koagulase (serum)	(-) serum tidak menggumpal
Maltosa	Asam (+)	Gas (-)	Oxidase	(+)
Sukrosa	Asam (+)	Gas (-)	Manitol	(+)

Catatan:

1. Hasil Uji ini hanya berlaku untuk contoh yang diuji.


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Lampiran 7. Identifikasi bakteri

Cara pembuatan media agar darah

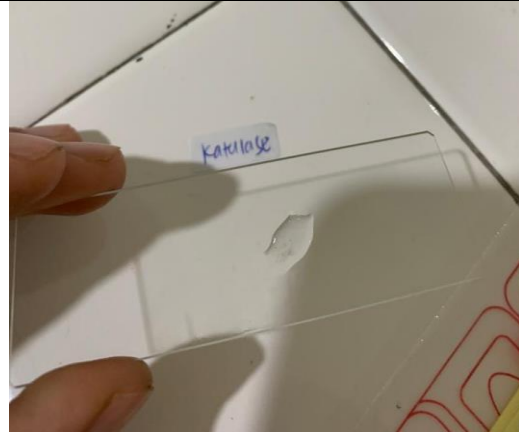
- a. Timbang Blood Agar Base (BAB) sebanyak 20 gram, kemudian masukkan ke dalam erlenmeyer. Tambahkan akuades sampai volume mencapai 500 ml, lalu diaduk hingga merata.
- b. Rebus larutan sampai homogen.
- c. Larutan yang sudah direbus, kemudian di masukkan ke dalam autoklaf pada suhu 121°C selama 15 menit untuk disterilisasi.
- d. Larutan yang telah disterilisasi, kemudian dicampur dengan darah sebanyak 35 ml dengan cara digoyangkan. Setelah itu, dimasukkan ke dalam cawan petri masing-masing sebanyak 1 mL.



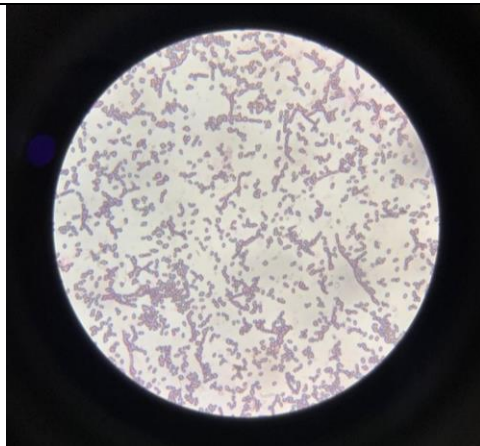
Identifikasi agar darah



Uji Koagulase

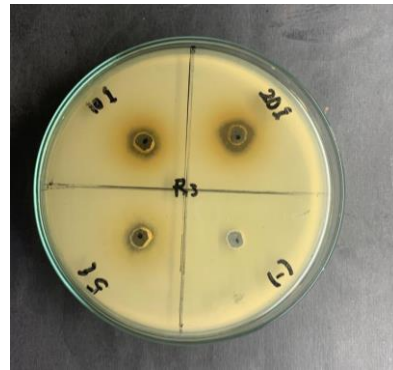
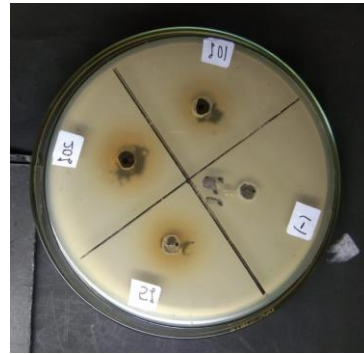
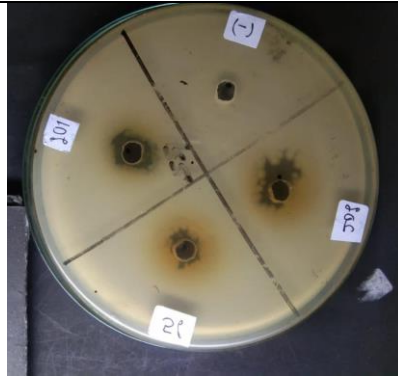


Uji Katalase

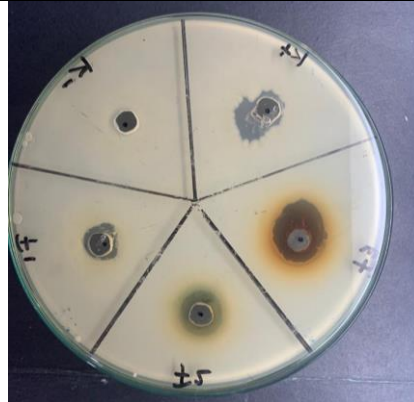
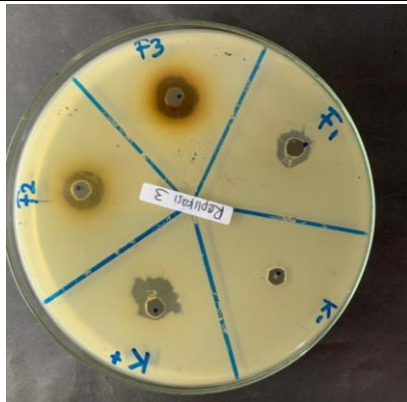


Pewarnaan gram

Lampiran 8. Uji aktivitas bakteri



Uji aktivitas ekstrak



Uji aktivitas sediaan

Lampiran 9. Perhitungan rendemen

Perhitungan rendemen serbuk :

Berat kering (kg)	Berat serbuk (kg)	Randemen (% b/b)
1,8	1,5	83,33 %

Perhitungan :

$$\begin{aligned}\% \text{ rendemen kering} &= \frac{\text{berat serbuk}}{\text{berat kering}} \times 100 \% \\ &= \frac{1,5}{1,8} \times 100 \% \\ &= 83,33 \%\end{aligned}$$

Perhitungan rendemen ekstrak :

Bobot serbuk (g)	Bobot ekstrak (g)	Randemen (% b/b)
600	127	21,17

Perhitungan

$$\begin{aligned}\% \text{ randemen ekstrak} &= \frac{\text{bobot ekstrak}}{\text{bobot serbuk}} \times 100\% \\ &= \frac{127}{600} \times 100\% \\ &= 21,17\%\end{aligned}$$

Lampiran 10. Perhitungan kadar air serbuk dan ekstrak

A. Kadar air serbuk

No	Bobot serbuk (g)	Volume air (mL)	Kadar air (% v/b)
1	10,005	0,7	6,99
2	10,040	0,6	5,98
3	10,053	0,7	6,96
Rata – rata ± SD			6,643 ± 0,57

Perhitungan kadar air serbuk

Replikasi 1

$$\begin{aligned}\text{Kadar air} &= \frac{\text{volume air}}{\text{berat serbuk}} \times 100\% \\ &= \frac{0,7 \text{ ml}}{10,005 \text{ g}} \times 100\% \\ &= 6,99 \%\end{aligned}$$

Replikasi 2

$$\begin{aligned}\text{Kadar air} &= \frac{\text{volume air}}{\text{berat serbuk}} \times 100\% \\ &= \frac{0,6 \text{ ml}}{10,040 \text{ g}} \times 100\% \\ &= 5,98 \%\end{aligned}$$

Replikasi 3

$$\begin{aligned}\text{Kadar air} &= \frac{\text{volume air}}{\text{berat serbuk}} \times 100\% \\ &= \frac{0,7 \text{ ml}}{10,053 \text{ g}} \times 100\% \\ &= 6,96 \%\end{aligned}$$

Lampiran 11. Perhitungan viskositas

Hasil uji viskositas					
Replikasi	F0	F1	F2	F3	K+
1	1,102	1,299	1,535	2,207	1,525
2	1,102	1,275	1,489	2,198	1,504
3	1,106	1,281	1,534	2,2	1,507

Diketahui :

Piknometer kosong : 26,8950

Piknometer + air : 53,6377 g

Piknometer + F0 : 54,5281 g

Piknometer + F1 : 55,1143 g

Piknometer + F2 : 55,4302 g

Piknometer + F3 : 56,2674 g

Piknometer + K+ : 54,8904 g

Berat Bersih Air

$$= (\text{Piknometer} + \text{air}) - (\text{piknometer kosong})$$

$$= 53,6377 - 26,850$$

$$= 26,7427 \text{ g}$$

Perhitungan viskositas F0 (kontrol negatif)

Replikasi 1

$$\frac{n1}{n2} = \frac{t1 \cdot \rho1}{t2 \cdot \rho2}$$

$$\frac{n1}{0,899} = \frac{23,77 \times 1,033}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{24,5544}{20,03}$$

$$n1 = 1,1020 \text{ cp}$$

Replikasi 2

$$\frac{n1}{n2} = \frac{t1.\rho1}{t2.\rho2}$$

$$\frac{n1}{0,899} = \frac{23,78 \times 1,033}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{24,5647}{20,03}$$

$$n1 = 1,1025 \text{ cp}$$

Replikasi 3

$$\frac{n1}{n2} = \frac{t1.\rho1}{t2.\rho2}$$

$$\frac{n1}{0,899} = \frac{23,87 \times 1,033}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{24,6577}{20,03}$$

$$n1 = 1,1060 \text{ cp}$$

Perhitungan viskositas F1 (5%)

Replikasi 1

$$\frac{n1}{n2} = \frac{t1.\rho1}{t2.\rho2}$$

$$\frac{n1}{0,899} = \frac{27,45 \times 1,055}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{28,9597}{20,03}$$

$$n1 = 1,299 \text{ cp}$$

Replikasi 2

$$\frac{n1}{n2} = \frac{t1 \cdot \rho1}{t2 \cdot \rho2}$$

$$\frac{n1}{0,899} = \frac{26,99 \times 1,053}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{28,4200}{20,03}$$

$$n1 = 1,275 \text{ cp}$$

Replikasi 3

$$\frac{n1}{n2} = \frac{t1 \cdot \rho1}{t2 \cdot \rho2}$$

$$\frac{n1}{0,899} = \frac{27,11 \times 1,053}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{28,5468}{20,03}$$

$$n1 = 1,281 \text{ cp}$$

Perhitungan viskositas F2 (10%)

Replikasi 1

$$\frac{n1}{n2} = \frac{t1 \cdot \rho1}{t2 \cdot \rho2}$$

$$\frac{n1}{0,899} = \frac{32,06 \times 1,067}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{34,2080}{20,03}$$

$$n1 = 1,535 \text{ cp}$$

Replikasi 2

$$\frac{n1}{n2} = \frac{t1 \cdot \rho1}{t2 \cdot \rho2}$$

$$\frac{n1}{0,899} = \frac{31,42 \times 1,067}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{33,5251}{20,03}$$

$$n1 = 1,489 \text{ cp}$$

Replikasi 3

$$\frac{n1}{n2} = \frac{t1 \cdot \rho1}{t2 \cdot \rho2}$$

$$\frac{n1}{0,899} = \frac{32,05 \times 1,067}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{34,1973}{20,03}$$

$$n1 = 1,534 \text{ cp}$$

Perhitungan viskositas F3 (20%)

Replikasi 1

$$\frac{n1}{n2} = \frac{t1 \cdot \rho1}{t2 \cdot \rho2}$$

$$\frac{n1}{0,899} = \frac{44,82 \times 1,095}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{49,0779}{20,03}$$

$$n1 = 1,535 \text{ cp}$$

Replikasi 2

$$\frac{n1}{n2} = \frac{t1.\rho1}{t2.\rho2}$$

$$\frac{n1}{0,899} = \frac{44,73 \times 1,095}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{48,9793}{20,03}$$

$$n1 = 2,202 \text{ cp}$$

Replikasi 3

$$\frac{n1}{n2} = \frac{t1.\rho1}{t2.\rho2}$$

$$\frac{n1}{0,899} = \frac{44,78 \times 1,095}{20,03 \times 1}$$

$$\frac{n1}{0,899} = \frac{49,0341}{20,03}$$

$$n1 = 2,200 \text{ cp}$$

Lampiran 12. Uji statistik mutu fisik dan stabilitas sediaan obat kumur dan aktivitas antibakteri

1. Uji mutu fisik pH

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	mutufisik_pH	Statistic	df	Sig.	Statistic	df	Sig.
nilai_pH	F0_basis	.321	3	.	.881	3	.328
	F1_5%	.175	3	.	1.000	3	1.000
	F2_10%	.269	3	.	.949	3	.567
	F3_20%	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

		Descriptives			
	mutufisik_pH		Statistic	Std. Error	
nilai_pH	F0_basis	Mean	5.7433	.03383	
		95% Confidence Interval for	Lower Bound	5.5978	
		Mean	Upper Bound	5.8889	
		5% Trimmed Mean		.	
		Median		5.7200	
		Variance		.003	
		Std. Deviation		.05859	
		Minimum		5.70	
		Maximum		5.81	
		Range		.11	
		Interquartile Range		.	
		Skewness		1.508	1.225
		Kurtosis		.	.
		F1_5%	F1_5%	Mean	5.1600
95% Confidence Interval for	Lower Bound			5.1352	
Mean	Upper Bound			5.1848	
5% Trimmed Mean				.	
Median				5.1600	
Variance				.000	
Std. Deviation				.01000	
Minimum				5.15	
Maximum				5.17	

	Range		.02	
	Interquartile Range		.	
	Skewness		.000	1.225
	Kurtosis		.	.
F2_10%	Mean		5.1633	.02963
	95% Confidence Interval for	Lower Bound	5.0359	
	Mean	Upper Bound	5.2908	
	5% Trimmed Mean		.	
	Median		5.1500	
	Variance		.003	
	Std. Deviation		.05132	
	Minimum		5.12	
	Maximum		5.22	
	Range		.10	
	Interquartile Range		.	
	Skewness		1.090	1.225
	Kurtosis		.	.
F3_20%	Mean		5.3167	.01453
	95% Confidence Interval for	Lower Bound	5.2542	
	Mean	Upper Bound	5.3792	
	5% Trimmed Mean		.	
	Median		5.3200	
	Variance		.001	
	Std. Deviation		.02517	
	Minimum		5.29	
	Maximum		5.34	
	Range		.05	
	Interquartile Range		.	
	Skewness		-.586	1.225
	Kurtosis		.	.

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
nilai_pH	Based on Mean	3.179	3	8	.085
	Based on Median	.643	3	8	.609
	Based on Median and with adjusted df	.643	3	4.246	.625
	Based on trimmed mean	2.882	3	8	.103

ANOVA

nilai_pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.680	3	.227	133.351	.000
Within Groups	.014	8	.002		
Total	.694	11			

Post Hoc Tests

nilai_pH

Tukey B^a

mutufisik_pH	N	Subset for alpha = 0.05		
		1	2	3
F1_5%	3	5.1600		
F2_10%	3	5.1633		
F3_20%	3		5.3167	
F0_basis	3			5.7433

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

2. Uji mutu fisik viskositas

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
nilai_viskositas	mutufisik_viskositas F0_basis	.343	3	.	.842	3	.220
	F1_5%	.292	3	.	.924	3	.465
	F2_10%	.378	3	.	.766	3	.037
	F3_20%	.280	3	.	.937	3	.516

a. Lilliefors Significance Correction

Descriptives

				Statistic	Std. Error
nilai_viskositas	mutufisik_viskositas F0_basis	Mean		1.103500	.0012583
		95% Confidence Interval for Mean	Lower Bound	1.098086	
			Upper Bound	1.108914	
		5% Trimmed Mean		.	
		Median		1.102500	
		Variance		.000	
		Std. Deviation		.0021794	
		Minimum		1.1020	
		Maximum		1.1060	
		Range		.0040	
		Interquartile Range		.	
		Skewness		1.630	1.225
		Kurtosis		.	.
	F1_5%	Mean		1.285067	.0071787
		95% Confidence Interval for Mean	Lower Bound	1.254179	
			Upper Bound	1.315954	
		5% Trimmed Mean		.	
		Median		1.281100	
		Variance		.000	
		Std. Deviation		.0124340	
Minimum			1.2751		
Maximum			1.2990		
Range			.0239		
Interquartile Range		.			
Skewness		1.289	1.225		

	Kurtosis		.	.
F2_10%	Mean		1.519467	.0150361
	95% Confidence Interval for	Lower Bound	1.454772	
	Mean	Upper Bound	1.584162	
	5% Trimmed Mean		.	
	Median		1.534000	
	Variance		.001	
	Std. Deviation		.0260433	
	Minimum		1.4894	
	Maximum		1.5350	
	Range		.0456	
	Interquartile Range		.	
	Skewness		-1.729	1.225
	Kurtosis		.	.
F3_20%	Mean		2.202000	.0025942
	95% Confidence Interval for	Lower Bound	2.190838	
	Mean	Upper Bound	2.213162	
	5% Trimmed Mean		.	
	Median		2.200700	
	Variance		.000	
	Std. Deviation		.0044933	
	Minimum		2.1983	
	Maximum		2.2070	
	Range		.0087	
	Interquartile Range		.	
	Skewness		1.193	1.225
	Kurtosis		.	.

Kruskal-Wallis Test

Ranks

	mutufisik_viskositas	N	Mean Rank
nilai_viskositas	F0_basis	3	2.00
	F1_5%	3	5.00
	F2_10%	3	8.00
	F3_20%	3	11.00
	Total	12	

Test Statistics^{a,b}

nilai_viskositas	
Kruskal-Wallis H	10.385
Df	3
Asymp. Sig.	.016

a. Kruskal Wallis Test

b. Grouping Variable:

mutufisik_viskositas

Ranks

	mutufisik_viskositas	N	Mean Rank	Sum of Ranks
nilai_viskositas	F0_basis	3	2.00	6.00
	F1_5%	3	5.00	15.00
	Total	6		

Test Statistics^a

nilai_viskositas	
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. Grouping Variable: mutufisik_viskositas

b. Not corrected for ties.

Ranks

	mutufisik_viskositas	N	Mean Rank	Sum of Ranks
nilai_viskositas	F0_basis	3	2.00	6.00
	F2_10%	3	5.00	15.00
	Total	6		

Test Statistics^a

nilai_viskositas	
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. Grouping Variable: mutufisik_viskositas

b. Not corrected for ties.

Ranks

	mutufisik_visikositas	N	Mean Rank	Sum of Ranks
nilai_visikositas	F0_basis	3	2.00	6.00
	F3_20%	3	5.00	15.00
	Total	6		

Test Statistics^a

	nilai_visikositas
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. Grouping Variable: mutufisik_visikositas

b. Not corrected for ties.

Ranks

	mutufisik_visikositas	N	Mean Rank	Sum of Ranks
nilai_visikositas	F1_5%	3	2.00	6.00
	F2_10%	3	5.00	15.00
	Total	6		

Test Statistics^a

	nilai_visikositas
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. Grouping Variable: mutufisik_visikositas

b. Not corrected for ties.

Ranks

	mutufisik_visikositas	N	Mean Rank	Sum of Ranks
nilai_visikositas	F1_5%	3	2.00	6.00
	F3_20%	3	5.00	15.00
	Total	6		

Test Statistics^a

nilai_visikositas	
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. Grouping Variable: mutufisik_visikositas

b. Not corrected for ties.

Ranks

	mutufisik_visikositas	N	Mean Rank	Sum of Ranks
nilai_visikositas	F2_10%	3	2.00	6.00
	F3_20%	3	5.00	15.00
	Total	6		

Test Statistics^a

nilai_visikositas	
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. Grouping Variable: mutufisik_visikositas

b. Not corrected for ties.

3. Uji Stabilitas pH

Tests of Normality

	UJI_pH	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	Df	Sig.	Statistic	df	Sig.
uji_harike.1	K-	.321	3	.	.881	3	.328
	F1	.175	3	.	1.000	3	1.000
	F2	.253	3	.	.964	3	.637
	F3	.219	3	.	.987	3	.780
uji_harike.7	K-	.175	3	.	1.000	3	1.000
	F1	.328	3	.	.871	3	.298
	F2	.204	3	.	.993	3	.843
	F3	.328	3	.	.871	3	.298
uji_harike.14	K-	.227	3	.	.983	3	.747
	F1	.204	3	.	.993	3	.843
	F2	.349	3	.	.832	3	.194
	F3	.314	3	.	.893	3	.363
uji_harike.21	K-	.343	3	.	.842	3	.220
	F1	.349	3	.	.832	3	.194
	F2	.253	3	.	.964	3	.637
	F3	.314	3	.	.893	3	.363

a. Lilliefors Significance Correction

Descriptives

	UJI_pH		Statistic	Std. Error	
uji_harike.1	K-	Mean	5.7433	.03383	
		95% Confidence Interval for Mean	Lower Bound	5.5978	
			Upper Bound	5.8889	
		5% Trimmed Mean	.		
		Median	5.7200		
		Variance	.003		
		Std. Deviation	.05859		
		Minimum	5.70		
		Maximum	5.81		
		Range	.11		
		Interquartile Range	.		
		Skewness	1.508	1.225	

	Kurtosis	.	.
F1	Mean	5.1600	.00577
	95% Confidence Interval for	Lower Bound	5.1352
	Mean	Upper Bound	5.1848
	5% Trimmed Mean	.	.
	Median	5.1600	.
	Variance	.000	.
	Std. Deviation	.01000	.
	Minimum	5.15	.
	Maximum	5.17	.
	Range	.02	.
	Interquartile Range	.	.
	Skewness	.000	1.225
	Kurtosis	.	.
F2	Mean	5.2267	.01764
	95% Confidence Interval for	Lower Bound	5.1508
	Mean	Upper Bound	5.3026
	5% Trimmed Mean	.	.
	Median	5.2200	.
	Variance	.001	.
	Std. Deviation	.03055	.
	Minimum	5.20	.
	Maximum	5.26	.
	Range	.06	.
	Interquartile Range	.	.
	Skewness	.935	1.225
	Kurtosis	.	.
F3	Mean	5.3167	.01453
	95% Confidence Interval for	Lower Bound	5.2542
	Mean	Upper Bound	5.3792
	5% Trimmed Mean	.	.
	Median	5.3200	.
	Variance	.001	.
	Std. Deviation	.02517	.
	Minimum	5.29	.
	Maximum	5.34	.
	Range	.05	.
	Interquartile Range	.	.

		Skewness	-586	1.225
		Kurtosis	.	.
uji_harike.7	K-	Mean	5.6700	.01732
		95% Confidence Interval for	Lower Bound	5.5955
		Mean	Upper Bound	5.7445
		5% Trimmed Mean	.	.
		Median	5.6700	.
		Variance	.001	.
		Std. Deviation	.03000	.
		Minimum	5.64	.
		Maximum	5.70	.
		Range	.06	.
		Interquartile Range	.	.
		Skewness	.000	1.225
		Kurtosis	.	.
	F1	Mean	5.0967	.01856
		95% Confidence Interval for	Lower Bound	5.0168
		Mean	Upper Bound	5.1765
		5% Trimmed Mean	.	.
		Median	5.1100	.
		Variance	.001	.
		Std. Deviation	.03215	.
		Minimum	5.06	.
		Maximum	5.12	.
		Range	.06	.
		Interquartile Range	.	.
		Skewness	-1.545	1.225
		Kurtosis	.	.
	F2	Mean	5.1533	.02028
		95% Confidence Interval for	Lower Bound	5.0661
		Mean	Upper Bound	5.2406
		5% Trimmed Mean	.	.
		Median	5.1500	.
		Variance	.001	.
		Std. Deviation	.03512	.
		Minimum	5.12	.
		Maximum	5.19	.
		Range	.07	.

		Interquartile Range	.	
		Skewness	.423	1.225
		Kurtosis	.	.
F3		Mean	5.2433	.01856
		95% Confidence Interval for	Lower Bound	5.1635
		Mean	Upper Bound	5.3232
		5% Trimmed Mean	.	.
		Median	5.2300	
		Variance	.001	
		Std. Deviation	.03215	
		Minimum	5.22	
		Maximum	5.28	
		Range	.06	
		Interquartile Range	.	
		Skewness	1.545	1.225
		Kurtosis	.	.
uji_harike.14	K-	Mean	5.4900	.03786
		95% Confidence Interval for	Lower Bound	5.3271
		Mean	Upper Bound	5.6529
		5% Trimmed Mean	.	.
		Median	5.4800	
		Variance	.004	
		Std. Deviation	.06557	
		Minimum	5.43	
		Maximum	5.56	
		Range	.13	
		Interquartile Range	.	
		Skewness	.670	1.225
		Kurtosis	.	.
F1		Mean	5.1167	.02028
		95% Confidence Interval for	Lower Bound	5.0294
		Mean	Upper Bound	5.2039
		5% Trimmed Mean	.	.
		Median	5.1200	
		Variance	.001	
		Std. Deviation	.03512	
		Minimum	5.08	
		Maximum	5.15	

		Range	.07	
		Interquartile Range	.	
		Skewness	-.423	1.225
		Kurtosis	.	.
F2		Mean	5.2233	.02848
		95% Confidence Interval for Mean	Lower Bound	5.1008
			Upper Bound	5.3459
		5% Trimmed Mean	.	
		Median	5.2000	
		Variance	.002	
		Std. Deviation	.04933	
		Minimum	5.19	
		Maximum	5.28	
		Range	.09	
		Interquartile Range	.	
		Skewness	1.652	1.225
		Kurtosis	.	.
F3		Mean	5.1900	.03055
		95% Confidence Interval for Mean	Lower Bound	5.0586
			Upper Bound	5.3214
		5% Trimmed Mean	.	
		Median	5.1700	
		Variance	.003	
		Std. Deviation	.05292	
		Minimum	5.15	
		Maximum	5.25	
		Range	.10	
		Interquartile Range	.	
		Skewness	1.458	1.225
		Kurtosis	.	.
uji_harike.21	K-	Mean	5.4900	.02517
		95% Confidence Interval for Mean	Lower Bound	5.3817
			Upper Bound	5.5983
		5% Trimmed Mean	.	
		Median	5.5100	
		Variance	.002	
		Std. Deviation	.04359	
		Minimum	5.44	

	Maximum		5.52	
	Range		.08	
	Interquartile Range		.	
	Skewness		-1.630	1.225
	Kurtosis		.	.
F1	Mean		5.1667	.02848
	95% Confidence Interval for	Lower Bound	5.0441	
	Mean	Upper Bound	5.2892	
	5% Trimmed Mean		.	
	Median		5.1900	
	Variance		.002	
	Std. Deviation		.04933	
	Minimum		5.11	
	Maximum		5.20	
	Range		.09	
	Interquartile Range		.	
	Skewness		-1.652	1.225
	Kurtosis		.	.
F2	Mean		5.1433	.01764
	95% Confidence Interval for	Lower Bound	5.0674	
	Mean	Upper Bound	5.2192	
	5% Trimmed Mean		.	
	Median		5.1500	
	Variance		.001	
	Std. Deviation		.03055	
	Minimum		5.11	
	Maximum		5.17	
	Range		.06	
	Interquartile Range		.	
	Skewness		-.935	1.225
	Kurtosis		.	.
F3	Mean		5.2200	.01528
	95% Confidence Interval for	Lower Bound	5.1543	
	Mean	Upper Bound	5.2857	
	5% Trimmed Mean		.	
	Median		5.2100	
	Variance		.001	
	Std. Deviation		.02646	

Minimum	5.20	
Maximum	5.25	
Range	.05	
Interquartile Range	.	
Skewness	1.458	1.225
Kurtosis	.	.

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
uji_harike.1	Based on Mean	3.527	3	8	.068
	Based on Median	.644	3	8	.608
	Based on Median and with adjusted df	.644	3	3.233	.634
	Based on trimmed mean	3.177	3	8	.085
uji_harike.7	Based on Mean	.065	3	8	.977
	Based on Median	.016	3	8	.997
	Based on Median and with adjusted df	.016	3	7.237	.997
	Based on trimmed mean	.057	3	8	.981
uji_harike.14	Based on Mean	.505	3	8	.689
	Based on Median	.146	3	8	.929
	Based on Median and with adjusted df	.146	3	6.862	.929
	Based on trimmed mean	.468	3	8	.713
uji_harike.21	Based on Mean	1.080	3	8	.411
	Based on Median	.107	3	8	.954
	Based on Median and with adjusted df	.107	3	5.775	.953
	Based on trimmed mean	.921	3	8	.473

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
uji_harike.1	Between Groups	.620	3	.207	162.031	.000
	Within Groups	.010	8	.001		
	Total	.630	11			
uji_harike.7	Between Groups	.608	3	.203	192.981	.000

	Within Groups	.008	8	.001		
	Total	.616	11			
uji_harike.14	Between Groups	.239	3	.080	29.569	.000
	Within Groups	.022	8	.003		
	Total	.260	11			
uji_harike.21	Between Groups	.230	3	.077	51.434	.000
	Within Groups	.012	8	.001		
	Total	.242	11			

Multiple Comparisons

Tukey HSD

Homogeneous Subsets

uji_harike.1

Tukey HSD^a

UJI_pH	N	Subset for alpha = 0.05		
		1	2	3
F1	3	5.1600		
F2	3	5.2267	5.2267	
F3	3		5.3167	
K-	3			5.7433
Sig.		.180	.059	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

uji_harike.7

Tukey HSD^a

UJI_pH	N	Subset for alpha = 0.05		
		1	2	3
F1	3	5.0967		
F2	3	5.1533		
F3	3		5.2433	
K-	3			5.6700
Sig.		.219	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

uji_harike.14

Tukey HSD^a

UJI_pH	N	Subset for alpha = 0.05	
		1	2
F1	3	5.1167	
F3	3	5.1900	
F2	3	5.2233	
K-	3		5.4900
Sig.		.131	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

uji_harike.21

Tukey HSD^a

UJI_pH	N	Subset for alpha = 0.05	
		1	2
F2	3	5.1433	
F1	3	5.1667	
F3	3	5.2200	
K-	3		5.4900
Sig.		.148	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	F0_H1	5.7433	3	.05859	.03383
	F0_H21	5.4900	3	.04359	.02517
Pair 2	F1_H1	5.1600	3	.01000	.00577
	F1_H21	5.1333	3	.10693	.06173
Pair 3	F2_H1	5.2100	3	.05568	.03215
	F2_H21	5.1433	3	.03055	.01764
Pair 4	F3_H1	5.3167	3	.02517	.01453
	F3_H21	5.2200	3	.02646	.01528

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	F0_H1 & F0_H21	3	.235	.849
Pair 2	F1_H1 & F1_H21	3	.047	.970
Pair 3	F2_H1 & F2_H21	3	.176	.887
Pair 4	F3_H1 & F3_H21	3	-.976	.139

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	F0_H1 - F0_H21	.25333	.06429	.03712	.09363	.41304	6.825	2	.021
Pair 2	F1_H1 - F1_H21	.02667	.10693	.06173	-.23895	.29229	.432	2	.708
Pair 3	F2_H1 - F2_H21	.06667	.05859	.03383	-.07889	.21222	1.971	2	.188
Pair 4	F3_H1 - F3_H21	.09667	.05132	.02963	-.03081	.22414	3.263	2	.082

4. Uji Stabilitas viskositas

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	UJI_VISKOSITAS	Statistic	df	Sig.	Statistic	df	Sig.
uji_harike.1	K-	.385	3	.	.750	3	.000
	F1	.292	3	.	.923	3	.463
	F2	.378	3	.	.766	3	.036
	F3	.304	3	.	.907	3	.407
uji_harike.7	K-	.308	3	.	.902	3	.391
	F1	.295	3	.	.920	3	.453
	F2	.334	3	.	.860	3	.268
	F3	.176	3	.	1.000	3	.986
uji_harike.14	K-	.219	3	.	.987	3	.780
	F1	.364	3	.	.800	3	.114
	F2	.175	3	.	1.000	3	1.000
	F3	.287	3	.	.930	3	.488
uji_harike.21	K-	.336	3	.	.857	3	.259
	F1	.318	3	.	.887	3	.344
	F2	.245	3	.	.971	3	.672
	F3	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

		Descriptives		
	UJI_VISKOSITAS		Statistic	Std. Error
uji_harike.1	K-	Mean	1.10333	.001333
		95% Confidence Interval for Mean	Lower Bound	1.09760
		Upper Bound	1.10907	
		5% Trimmed Mean	.	
		Median	1.10200	
		Variance	.000	
		Std. Deviation	.002309	
		Minimum	1.102	
		Maximum	1.106	
		Range	.004	
		Interquartile Range	.	
		Skewness	1.732	1.225

	Kurtosis		.	.
F1	Mean		1.28500	.007211
	95% Confidence Interval for	Lower Bound	1.25397	
	Mean	Upper Bound	1.31603	
	5% Trimmed Mean		.	
	Median		1.28100	
	Variance		.000	
	Std. Deviation		.012490	
	Minimum		1.275	
	Maximum		1.299	
	Range		.024	
	Interquartile Range		.	
	Skewness		1.293	1.225
	Kurtosis		.	.
F2	Mean		1.51933	.015169
	95% Confidence Interval for	Lower Bound	1.45406	
	Mean	Upper Bound	1.58460	
	5% Trimmed Mean		.	
	Median		1.53400	
	Variance		.001	
	Std. Deviation		.026274	
	Minimum		1.489	
	Maximum		1.535	
	Range		.046	
	Interquartile Range		.	
	Skewness		-1.729	1.225
	Kurtosis		.	.
F3	Mean		2.20167	.002728
	95% Confidence Interval for	Lower Bound	2.18993	
	Mean	Upper Bound	2.21341	
	5% Trimmed Mean		.	
	Median		2.20000	
	Variance		.000	
	Std. Deviation		.004726	
	Minimum		2.198	
	Maximum		2.207	
	Range		.009	
	Interquartile Range		.	

		Skewness	1.390	1.225
		Kurtosis	.	.
uji_harike.7	K-	Mean	1.07767	.008511
		95% Confidence Interval for	Lower Bound	1.04104
		Mean	Upper Bound	1.11429
		5% Trimmed Mean	.	.
		Median	1.08300	.
		Variance	.000	.
		Std. Deviation	.014742	.
		Minimum	1.061	.
		Maximum	1.089	.
		Range	.028	.
		Interquartile Range	.	.
		Skewness	-1.415	1.225
		Kurtosis	.	.
	F1	Mean	1.27167	.014746
		95% Confidence Interval for	Lower Bound	1.20822
		Mean	Upper Bound	1.33511
		5% Trimmed Mean	.	.
		Median	1.28000	.
		Variance	.001	.
		Std. Deviation	.025541	.
		Minimum	1.243	.
		Maximum	1.292	.
		Range	.049	.
		Interquartile Range	.	.
		Skewness	-1.312	1.225
		Kurtosis	.	.
	F2	Mean	1.57967	.016496
		95% Confidence Interval for	Lower Bound	1.50869
		Mean	Upper Bound	1.65064
		5% Trimmed Mean	.	.
		Median	1.59200	.
		Variance	.001	.
		Std. Deviation	.028572	.
		Minimum	1.547	.
		Maximum	1.600	.
		Range	.053	.

		Interquartile Range	.	
		Skewness	-1.581	1.225
		Kurtosis	.	.
F3		Mean	2.04067	.022806
		95% Confidence Interval for	Lower Bound	1.94254
		Mean	Upper Bound	2.13879
		5% Trimmed Mean	.	.
		Median	2.04100	.
		Variance	.002	.
		Std. Deviation	.039501	.
		Minimum	2.001	.
		Maximum	2.080	.
		Range	.079	.
		Interquartile Range	.	.
		Skewness	-.038	1.225
		Kurtosis	.	.
uji_harike.14	K-	Mean	1.08900	.008718
		95% Confidence Interval for	Lower Bound	1.05149
		Mean	Upper Bound	1.12651
		5% Trimmed Mean	.	.
		Median	1.08700	.
		Variance	.000	.
		Std. Deviation	.015100	.
		Minimum	1.075	.
		Maximum	1.105	.
		Range	.030	.
		Interquartile Range	.	.
		Skewness	.586	1.225
		Kurtosis	.	.
F1		Mean	1.31133	.004842
		95% Confidence Interval for	Lower Bound	1.29050
		Mean	Upper Bound	1.33217
		5% Trimmed Mean	.	.
		Median	1.30700	.
		Variance	.000	.
		Std. Deviation	.008386	.
		Minimum	1.306	.
		Maximum	1.321	.

		Range	.015	
		Interquartile Range	.	
		Skewness	1.704	1.225
		Kurtosis	.	.
F2		Mean	1.50800	.006928
		95% Confidence Interval for	Lower Bound	1.47819
		Mean	Upper Bound	1.53781
		5% Trimmed Mean	.	
		Median	1.50800	
		Variance	.000	
		Std. Deviation	.012000	
		Minimum	1.496	
		Maximum	1.520	
		Range	.024	
		Interquartile Range	.	
		Skewness	.000	1.225
		Kurtosis	.	.
F3		Mean	2.13367	.018260
		95% Confidence Interval for	Lower Bound	2.05510
		Mean	Upper Bound	2.21224
		5% Trimmed Mean	.	
		Median	2.12400	
		Variance	.001	
		Std. Deviation	.031628	
		Minimum	2.108	
		Maximum	2.169	
		Range	.061	
		Interquartile Range	.	
		Skewness	1.247	1.225
		Kurtosis	.	.
uji_harike.21	K-	Mean	1.15067	.029941
		95% Confidence Interval for	Lower Bound	1.02184
		Mean	Upper Bound	1.27949
		5% Trimmed Mean	.	
		Median	1.12800	
		Variance	.003	
		Std. Deviation	.051859	
		Minimum	1.114	

	Maximum		1.210	
	Range		.096	
	Interquartile Range		.	
	Skewness		1.591	1.225
	Kurtosis		.	.
F1	Mean		1.33967	.006438
	95% Confidence Interval for	Lower Bound	1.31197	
	Mean	Upper Bound	1.36737	
	5% Trimmed Mean		.	
	Median		1.34400	
	Variance		.000	
	Std. Deviation		.011150	
	Minimum		1.327	
	Maximum		1.348	
	Range		.021	
	Interquartile Range		.	
	Skewness		-1.485	1.225
	Kurtosis		.	.
F2	Mean		1.53100	.011719
	95% Confidence Interval for	Lower Bound	1.48058	
	Mean	Upper Bound	1.58142	
	5% Trimmed Mean		.	
	Median		1.53500	
	Variance		.000	
	Std. Deviation		.020298	
	Minimum		1.509	
	Maximum		1.549	
	Range		.040	
	Interquartile Range		.	
	Skewness		-.852	1.225
	Kurtosis		.	.
F3	Mean		2.14400	.016743
	95% Confidence Interval for	Lower Bound	2.07196	
	Mean	Upper Bound	2.21604	
	5% Trimmed Mean		.	
	Median		2.14400	
	Variance		.001	
	Std. Deviation		.029000	

Minimum	2.115	
Maximum	2.173	
Range	.058	
Interquartile Range	.	
Skewness	.000	1.225
Kurtosis	.	.

Kruskal-Wallis Test

Test Statistics^{a,b}

	uji_harike.1	uji_harike.7	uji_harike.14	uji_harike.21
Kruskal-Wallis H	10.421	10.385	10.385	10.385
Df	3	3	3	3
Asymp. Sig.	.015	.016	.016	.016

a. Kruskal Wallis Test

b. Grouping Variable: UJI_VISKOSITAS

Mann-Whitney Test

Ranks

	UJI_VISKOSITAS	N	Mean Rank	Sum of Ranks
uji_harike.1	K-	3	2.00	6.00
	F1	3	5.00	15.00
	Total	6		
uji_harike.7	K-	3	2.00	6.00
	F1	3	5.00	15.00
	Total	6		
uji_harike.14	K-	3	2.00	6.00
	F1	3	5.00	15.00
	Total	6		
uji_harike.21	K-	3	2.00	6.00
	F1	3	5.00	15.00
	Total	6		

Test Statistics^a

	uji_harike.1	uji_harike.7	uji_harike.14	uji_harike.21
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000
Z	-1.993	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.046	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: UJI_VISKOSITAS

b. Not corrected for ties.

Ranks

	UJI_VISKOSITAS	N	Mean Rank	Sum of Ranks
uji_harike.1	K-	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		
uji_harike.7	K-	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		
uji_harike.14	K-	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		
uji_harike.21	K-	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		

Test Statistics^a

	uji_harike.1	uji_harike.7	uji_harike.14	uji_harike.21
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000
Z	-1.993	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.046	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: UJI_VISKOSITAS

b. Not corrected for ties.

Ranks

	UJI_VISKOSITAS	N	Mean Rank	Sum of Ranks
uji_harike.1	K-	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.7	K-	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.14	K-	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.21	K-	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		

Test Statistics^a

	uji_harike.1	uji_harike.7	uji_harike.14	uji_harike.21
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000
Z	-1.993	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.046	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: UJI_VISKOSITAS

b. Not corrected for ties.

Ranks

	UJI_VISKOSITAS	N	Mean Rank	Sum of Ranks
uji_harike.1	F1	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		
uji_harike.7	F1	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		
uji_harike.14	F1	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		
uji_harike.21	F1	3	2.00	6.00
	F2	3	5.00	15.00
	Total	6		

Test Statistics^a

	uji_harike.1	uji_harike.7	uji_harike.14	uji_harike.21
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000
Z	-1.964	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.050	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: UJI_VISKOSITAS

b. Not corrected for ties.

Ranks

	UJI_VISKOSITAS	N	Mean Rank	Sum of Ranks
uji_harike.1	F1	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.7	F1	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.14	F1	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.21	F1	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		

Test Statistics^a

	uji_harike.1	uji_harike.7	uji_harike.14	uji_harike.21
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000
Z	-1.964	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.050	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: UJI_VISKOSITAS

b. Not corrected for ties.

Ranks

	UJI_VISKOSITAS	N	Mean Rank	Sum of Ranks
uji_harike.1	F2	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.7	F2	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.14	F2	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		
uji_harike.21	F2	3	2.00	6.00
	F3	3	5.00	15.00
	Total	6		

Test Statistics^a

	uji_harike.1	uji_harike.7	uji_harike.14	uji_harike.21
Mann-Whitney U	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000
Z	-1.964	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.050	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: UJI_VISKOSITAS

b. Not corrected for ties.

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
uji_harike.7 - uji_harike.1	Negative Ranks	8 ^a	6.56	52.50
	Positive Ranks	4 ^b	6.38	25.50
	Ties	0 ^c		
	Total	12		
uji_harike.14 - uji_harike.1	Negative Ranks	7 ^d	7.64	53.50
	Positive Ranks	5 ^e	4.90	24.50
	Ties	0 ^f		
	Total	12		
uji_harike.21 - uji_harike.1	Negative Ranks	3 ^g	7.67	23.00

	Positive Ranks	8 ^h	5.38	43.00
	Ties	1 ⁱ		
	Total	12		
uji_harike.14 - uji_harike.7	Negative Ranks	4 ^j	6.25	25.00
	Positive Ranks	8 ^k	6.63	53.00
	Ties	0 ^l		
	Total	12		
uji_harike.21 - uji_harike.7	Negative Ranks	3 ^m	4.00	12.00
	Positive Ranks	9 ⁿ	7.33	66.00
	Ties	0 ^o		
	Total	12		
uji_harike.21 - uji_harike.14	Negative Ranks	2 ^p	3.50	7.00
	Positive Ranks	10 ^q	7.10	71.00
	Ties	0 ^r		
	Total	12		

- a. uji_harike.7 < uji_harike.1
- b. uji_harike.7 > uji_harike.1
- c. uji_harike.7 = uji_harike.1
- d. uji_harike.14 < uji_harike.1
- e. uji_harike.14 > uji_harike.1
- f. uji_harike.14 = uji_harike.1
- g. uji_harike.21 < uji_harike.1
- h. uji_harike.21 > uji_harike.1
- i. uji_harike.21 = uji_harike.1
- j. uji_harike.14 < uji_harike.7
- k. uji_harike.14 > uji_harike.7
- l. uji_harike.14 = uji_harike.7
- m. uji_harike.21 < uji_harike.7
- n. uji_harike.21 > uji_harike.7
- o. uji_harike.21 = uji_harike.7
- p. uji_harike.21 < uji_harike.14
- q. uji_harike.21 > uji_harike.14
- r. uji_harike.21 = uji_harike.14

Test Statistics^a

	uji_harike.7 - uji_harike.1	uji_harike.14 - uji_harike.1	uji_harike.21 - uji_harike.1	uji_harike.14 - uji_harike.7	uji_harike.21 - uji_harike.7	uji_harike.21 - uji_harike.14
Z	-1.060 ^b	-1.138 ^b	-.889 ^c	-1.098 ^c	-2.118 ^c	-2.515 ^c
Asymp. Sig. (2-tailed)	.289	.255	.374	.272	.034	.012

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.

5. Uji aktivitas antibakteri sediaan obat kumur ekstrak daun katuk

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
zona_hambat	F0_basis	.	3	.	.	3	.
	F1_5%	.315	3	.	.891	3	.357
	F2_10%	.198	3	.	.995	3	.871
	F3_20%	.363	3	.	.802	3	.120
	F4_Kpositif	.245	3	.	.971	3	.672

a. Lilliefors Significance Correction

Descriptives

		aktivitas_antibakteri		Statistic	Std. Error
zona_hambat	F0_basis	Mean		.0000	.00000
		95% Confidence Interval for Mean	Lower Bound	.0000	
			Upper Bound	.0000	
		5% Trimmed Mean		.0000	
		Median		.0000	
		Variance		.000	
		Std. Deviation		.00000	
		Minimum		.00	
		Maximum		.00	
		Range		.00	
		Interquartile Range		.00	
		Skewness		.	.
		Kurtosis		.	.
		F1_5%	Mean		12.0667
95% Confidence Interval for Mean	Lower Bound		11.1982		
	Upper Bound		12.9352		
5% Trimmed Mean			.		
Median			12.2000		
Variance			.122		
Std. Deviation			.34962		

	Minimum		11.67	
	Maximum		12.33	
	Range		.66	
	Interquartile Range		.	
	Skewness		-1.467	1.225
	Kurtosis		.	.
F2_10%	Mean		16.0300	.22279
	95% Confidence Interval for	Lower Bound	15.0714	
	Mean	Upper Bound	16.9886	
	5% Trimmed Mean		.	
	Median		16.0000	
	Variance		.149	
	Std. Deviation		.38588	
	Minimum		15.66	
	Maximum		16.43	
	Range		.77	
	Interquartile Range		.	
	Skewness		.348	1.225
	Kurtosis		.	.
F3_20%	Mean		17.9733	.32230
	95% Confidence Interval for	Lower Bound	16.5866	
	Mean	Upper Bound	19.3601	
	5% Trimmed Mean		.	
	Median		18.2600	
	Variance		.312	
	Std. Deviation		.55824	
	Minimum		17.33	
	Maximum		18.33	
	Range		1.00	
	Interquartile Range		.	
	Skewness		-1.701	1.225
	Kurtosis		.	.
F4_Kpositif	Mean		18.4000	.58595
	95% Confidence Interval for	Lower Bound	15.8789	
	Mean	Upper Bound	20.9211	
	5% Trimmed Mean		.	
	Median		18.6000	
	Variance		1.030	

Std. Deviation	1.01489	
Minimum	17.30	
Maximum	19.30	
Range	2.00	
Interquartile Range	.	
Skewness	-.852	1.225
Kurtosis	.	.

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
zona_hambat	Based on Mean	3.405	4	10	.053
	Based on Median	1.070	4	10	.421
	Based on Median and with adjusted df	1.070	4	5.171	.457
	Based on trimmed mean	3.185	4	10	.063

ANOVA

zona_hambat					
	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	698.670	4	174.667	541.515	.000
Within Groups	3.226	10	.323		
Total	701.895	14			

Post Hoc Tests

zona_hambat

Tukey HSD ^a					
Subset for alpha = 0.05					
aktivitas_antibakteri	N	1	2	3	4
F0_basis	3	.0000			
F1_5%	3		12.0667		
F2_10%	3			16.0300	
F3_20%	3				17.9733
F4_Kpositif	3				18.4000
Sig.		1.000	1.000	1.000	.883

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Man Sample Size = 3.000.

