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Lampiran 1. Surat keterangan hasil determinasi tanaman daun turi putih



UPT-LABORATORIUM

Nomor : 228/081/UPT-LAB/4.05.2021
 Hal : Hasil determinasi tumbuhan
 Lamp : -

Nama Perintah : Novi Ayu Nugrah
 NIM : 211751006A
 Alamat : Program Studi S-1 Farmasi, Universitas Sebelas Budi, Surakarta.
 Nama sampel : Turi Putih/ *Sebania grandiflora* Pers.

HASIL DETERMINASI TUMBUHAN

Klasifikasi	
Kingdom	: Plantae
Super Divisi	: Spermatophyta
Divisi	: Magnoliophyta
Kelas	: Magnoliopsida
Ordo	: Fabales
Familia	: Fabaceae/Papilionaceae
Genus	: <i>Sebania</i>
Spesies	: <i>Sebania grandiflora</i> Pers.

Hasil Determinasi menurut: Steenis, C.G.G.J.V, Blombergen, H, Eyma, P.J. 1992 :
 1b - 2b - 3b - 4b - 4b - 7b - 9b - 10b - 11b - 12b - 13b - 15b - 15b, golongan 9, 147b - 208b -
 219b - 220b - 224b - 225b - 227b - 229b - 230a - 231b - 233a. familia 60, Papilionaceae
 1b - 3b - 16a - 17b - 18b. 13. *Sebania*. *Sebania grandiflora* Pers.

Jl. Letjen Satrio, Mangrove-Solo 57127 Telp. 0271-852518, Fax. 0271-853275
 Homepage : www.setiabudi.ac.id, e-mail : info@setiabudi.ac.id

Deskripsi:

- Habitat** : Pohon berumur pendek, tinggi 5 – 70 m.
- Akar** : Akar menggantung, putih kekuningan.
- Batang** : Persegi panjang batang semi-pendul, ranting kerap kali menggantung.
- Dahan** : Dahan memeluk menyirip grup, anak dahan 11 – 18 pasang, bentuk bulat memanjang sampai oval, panjang 1,5 – 4 cm, lebar 0,7 – 1,2 cm, ujung membulat atau meruncing ke dalam, pangkal membulat, tepi rata, pertulangan menyirip, tangkai foliolium pendek.
- Daun** : Daun memeluk rantan, berwarna putih, duduk di ketiak, menggantung, jumlah daun 2 – 4. Kulit daun bentuk sabit. Kelopak bentuk lonjong, tinggi 1,5 – 2,2 cm, lebar tidak teratur. Bulang benjolan bulat telur memanjang, panjang 5 – 6 cm, sayap bentuk sabit memanjang, luas benjolan panjang, terputul.
- Buah** : Buah pedungul menggantung, bentuk gavis, dengan sekatan antara, di atas kelopak dengan tangkai panjang.

Kepala IPT-LAH

Utaraningrat Setia Hadi



Anil Cahyaningrat, Anil

Sukakarta, 4 Mei 2014





Penanggung jawab

Determinasi Tumbuhan



Desi Sulistyawati, M.Sc.

Lampiran 2. Tanaman, serbuk dan ekstrak daun turi putih

 <p>Tanaman turi putih</p>	 <p>Proses maserasi</p>
 <p>Daun turi putih kering</p>	 <p>Penyaringan</p>
 <p>Serbuk daun turi putih</p>	 <p>Ekstrak kental</p>

Lampiran 3. Gambar alat yang digunakan dalam penelitian

 <p>Vacuum rotary evaporator</p>	 <p>Stering bitwell</p>
 <p>Uji mutu fisik granul</p>	 <p>Inkubator</p>
 <p>Alat cetak tablet</p>	 <p>Sentrifugase</p>
 <p>Moisture balance</p>	 <p>Disintegrator tester</p>
 <p>Autoklaf</p>	 <p>LAF</p>

Lampran 4. Hasil perhitungan persentase bobot kering terhadap bobot basah daun turi putih

Bobot basah (Kg)	Bobot kering (Kg)	Persentase (%)
4,825	1,378	28,55

$$\begin{aligned}\text{Persentase \%} &= \frac{\text{Bobot kering (Kg)}}{\text{Bobot basah (Kg)}} \times 100\% \\ &= \frac{1,378}{4,825} \times 100\% \\ &= 28,55\%\end{aligned}$$

Lampiran 5. Hasil perhitungan penetapan susut pengeringan serbuk daun turi putih

No	Berat (gram)	Susut pengeringan (%)
1	2.0	8,5
2	2.0	8.0
3	2.0	9.0
Rata-rata		8,5

Lampiran 6. Hasil perhitungan penetapan kadar air serbuk daun turi putih

No	Berat awal (gram)	Volume air (ml)	Kadar air (%)
1	20	1,1	5,5
2	20	1,6	9
3	20	1,9	9,5
Rata-rata ± SD		4,6	7,67 ± 2,179







$$\begin{aligned}\text{Contoh perhitungan penetapan kadar air (\%)} &= \frac{\text{Volume air (mL)}}{\text{Bobot serbuk (g)}} \times 100\% \\ &= \frac{1,1}{20} \times 100\% \\ &= 5,5\%\end{aligned}$$

Lampiran 7. Hasil perhitungan persentase rendemen ekstrak etanol daun turi putih





Bobot serbuk (gram)	Bobot ekstrak (gram)	Rendemen (% b/v)
1000	297,595	29,760

$$\begin{aligned}\text{Persentase \%} &= \frac{\text{Berat ekstrak (g)}}{\text{Berat serbuk (g)}} \times 100\% \\ &= \frac{297,595}{1000} \times 100\% \\ &= 29,76\%\end{aligned}$$

Lampiran 8. Hasil identifikasi kandungan senyawa kimia daun turi putih

	Serbuk	Ekstrak
Flavonoid		
Saponin		
Tanin		

Lampiran 9. Hasil formula dan pembuatan sediaan tablet hisap

Formula I	<p>Ekstrak 10% = $\frac{10}{100} \times 500 \text{ mg} = 50 \text{ mg}$ Aspartam 3% = $\frac{3}{100} \times 500 \text{ mg} = 15 \text{ mg}$ PVP 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Manitol 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Talk 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Mg stearate 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Laktosa = ad 500 mg</p>	
Formula II	<p>Ekstrak 15% = $\frac{15}{100} \times 500 \text{ mg} = 75 \text{ mg}$ Aspartam 3% = $\frac{3}{100} \times 500 \text{ mg} = 15 \text{ mg}$ PVP 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Manitol 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Talk 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Mg stearate 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Laktosa = ad 500 mg</p>	
Formula III	<p>Ekstrak 20% = $\frac{20}{100} \times 500 \text{ mg} = 100 \text{ mg}$ Aspartam 3% = $\frac{3}{100} \times 500 \text{ mg} = 15 \text{ mg}$ PVP 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Manitol 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Talk 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Mg stearate 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Laktosa = ad 500 mg</p>	
Kontrol -	<p>Aspartam 3% = $\frac{3}{100} \times 500 \text{ mg} = 15 \text{ mg}$ PVP 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Manitol 5% = $\frac{5}{100} \times 500 \text{ mg} = 25 \text{ mg}$ Talk 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Mg stearate 1% = $\frac{1}{100} \times 500 \text{ mg} = 5 \text{ mg}$ Laktosa = ad 500 mg</p>	

Lampiran 10. Hasil uji mutu fisik granul tablet hisap ekstrak daun turi putih

10.a. Uji waktu alir granul

No	Waktu alir (detik/100 g)			
	FI	FII	FIII	K-
1	5,22	5,39	5,42	5,37
2	5,32	5,20	5,35	5,22
3	5,41	5,45	5,40	5,39
\bar{X}	5,32	5,35	5,39	5,33
SD	0,10	0,13	0,04	0,09

10.b. Uji sudut diam granul

No	Sudut diam (detik/100 g)													
	FI				FII				FIII				K-	
	d	H	A	D	H	α	d	H	A	d	H	α		
1	16,48	4,11	26,51	16,50	4,30	27,53	16,40	4,24	27,34	16,50	4,30	27,53		
2	16,52	4,20	26,95	16,56	4,28	27,34	16,52	4,21	27,01	16,46	4,25	27,31		
3	16,42	4,23	27,26	16,60	4,20	26,84	16,36	4,20	27,18	16,52	4,36	27,83		
\bar{X}			26,91			27,24			27,18			27,56		
SD			0,38			0,36			0,17			0,26		

Contoh perhitungan sudut diam tablet hisap

$$\begin{aligned}\alpha &= \tan^{-1} \frac{h}{r} \\ &= \frac{4,11}{8,24} \\ &= 26,51\end{aligned}$$

10.c. Uji susut pengeringan granul

Berat (gram)	FI	FII	FIII	K-
Berat awal	2,00	2,00	2,00	2,00
Berat konstan	1,83	1,80	1,87	1,79
LOD (%)	8,5	10,0	6,5	10,5

Contoh perhitungan LOD

$$\begin{aligned}\text{LOD \%} &= \frac{\text{Berat awal} - \text{Berat konstan}}{\text{Berat awal}} \times 100\% \\ &= \frac{2,00 - 1,83}{2,00} \times 100\% \\ &= 8,5\%\end{aligned}$$

Lampiran 11. Hasil uji mutu fisik sediaan tablet hisap ekstrak daun turi putih
11.a. Uji keseragaman bobot tablet

No	Keseragaman bobot (gram)			
	FI	FII	FIII	K-
1	505	500	498	500
2	504	507	514	501
3	500	511	500	500
4	498	500	508	499
5	501	502	499	500
6	500	504	504	498
7	507	500	500	497
8	499	503	503	500
9	507	515	495	500
10	509	503	501	505
11	500	500	500	499
12	502	501	500	500
13	500	505	499	503
14	501	500	500	498
15	500	502	502	500
16	499	500	500	495
17	501	500	498	508
18	500	498	495	500
19	497	500	500	501
20	500	495	500	499
\bar{X}	501,5	502,3	500,8	500,2
SD	3,22	4,51	4,21	2,76
CV	0,64	0,89	0,84	0,55

Contoh perhitungan penyimpangan bobot tablet hisap

Kolom A (5%)

$$5\% = \frac{5}{100} \times 501,5 \text{ mg} = 25,075 \text{ mg}$$

$$\text{BA} : 501,5 + 25,075 = 526,575 \text{ mg}$$

$$\text{BB} : 501,5 - 25,075 = 476,425 \text{ mg}$$

$$\text{Range bobot tablet hisap} = 476,425 \text{ mg} - 526,575 \text{ mg}$$

Kolom B (10%)

$$10\% = \frac{10}{100} \times 501,5 \text{ mg} = 50,15 \text{ mg}$$

$$\text{BA} : 501,5 + 50,15 = 551,65 \text{ mg}$$

$$\text{BB} : 501,5 - 50,15 = 451,35 \text{ mg}$$

$$\text{Range bobot tablet hisap} = 451,35 \text{ mg} - 551,65 \text{ mg}$$

Data tersebut sesuai dengan range tablet hisap yang dipersyaratkan telah memenuhi syarat uji keseragaman bobot tablet.

$$\begin{aligned} CV\% &= \frac{SD}{\text{Bobot rata-rata tablet}} \times 100\% \\ &= \frac{3,22}{501,5} \times 100\% \\ &= 0,64\% \end{aligned}$$

11.b. Uji kekerasan tablet

No	Kekerasan tablet (Kg)			
	FI	FII	FIII	K-
1	10,9	11,4	12,0	10,4
2	10,2	11,0	11,5	10,0
3	10,8	11,2	11,3	10,2
4	10,1	10,6	11,0	10,0
5	10,2	10,9	12,0	10,1
6	10,6	11,0	11,5	10,3
$\bar{X} \pm SD$	$10,47 \pm 0,35^a$	$11,02 \pm 0,27^b$	$11,55 \pm 0,34^c$	$10,80 \pm 0,61^a$

11.c. Uji kerapuhan tablet

No	Kerapuhan tablet (Kg)			
	FI	FII	FIII	K-
1	0,26	0,28	0,35	0,23
2	0,21	0,28	0,29	0,20
3	0,23	0,31	0,36	0,21
$\bar{X} \pm SD$	$0,23 \pm 0,03^a$	$0,29 \pm 0,02^b$	$0,33 \pm 0,04^b$	$0,30 \pm 0,02^a$

Contoh perhitungan uji kerapuhan tablet hisap

- Berat 20 tablet hisap sebelum perlakuan = 10,0411 g
- Berat 20 tablet hisap setelah perlakuan = 10,0150 g
- % uji kerapuhan = $\frac{\text{Berat sebelum perlakuan} - \text{Berat setelah perlakuan}}{\text{Berat sebelum perlakuan}} \times 100\%$
 $= \frac{10,0411 - 10,0150}{10,0411} \times 100\%$
 $= 0,26\%$

11.d. Uji waktu larut tablet

No	Waktu larut (menit)			
	FI	FII	FIII	K-
1	4,58	5,00	4,95	4,6
2	5,32	6,14	4,83	5,27
3	5,23	5,11	5,00	4,95
4	4,38	4,87	5,21	6,14
5	3,99	5,45	5,65	5,10
6	5,81	5,10	6,21	5,35
$\bar{X} \pm SD$	4,89 \pm 0,68 ^a	5,28 \pm 0,46 ^a	5,31 \pm 0,53 ^a	5,24 \pm 0,52 ^a

11.e. Uji stabilitas

No	Kekerasan tablet (Kg)			
	FI	FII	FIII	K-
1	9.3	10	9.7	10,4
2	8.5	9.9	9.8	11
3	9.8	10.1	7.9	9.5
4	10	10	8.8	10
5	8.8	9.5	8.5	9.8
6	7.5	9.6	7.6	10
\bar{X}	9,00	9,9	8,7	10,1
SD	0,9	0,2	0,9	0,5

No	Waktu larut (menit)			
	FI	FII	FIII	K-
1	3,20	5,00	4,70	4,10
2	4,35	4,15	4,31	5,00
3	5,00	5,11	3,72	4,14
4	3,89	4,80	4,21	5,15
5	4,00	5,00	5,00	5,00
6	4,81	4,23	4,90	4,93
\bar{X}	4,21	4,72	4,47	4,72
SD	0,66	0,42	0,49	0,47

Lampiran 12. Hasil perhitungan pembuatan media uji

12.a. Sabouraud Dextrosa Agar

- SDA.....65 g
- Kloramfenikol.....100 mg
- Aquadest.....1 L

Media SDA sebanyak 65 gram, 1 liter aquadest panaskan sambil diaduk hingga larut kemudian masukkan kloramfenikol sebanyak 100 mg. Media SDA masukkan kedalam tabung reaksi sebanyak 10 ml, tutup dengan kapas dan sterilkan dalam autoklaf selama 15 menit pada suhu 120°C. Masukkan media kedalam cawan petri ukuran besar yang telah disterilkan masing-masing berisi 30 ml.

12.b. Media gula-gula

- Ekstrak daging..... 3 gr
- Pepton..... 3 gr
- Phenol red 1%..... 1 ml
- Gula-gula..... 5 gr

Menimbang semua bahan, larutkan dengan 40 ml aquadest dan tambahkan *Phenol Red* 1% sebanyak satu tetes. Masukkan kedalam tabung reaksi sebanyak 10 ml, kemudian autoklaf selama 15 menit. Tambahkan 1-2 ose biakan *Candida albicans*, inkubasi selama 24-48 jam. Amati adanya gelembung gas dan perubahan warna menjadi kuning.

12.c. Media SGC

- Sabouraud Glukosa Cair 30g/L
- Kloramfenikol 200 mg

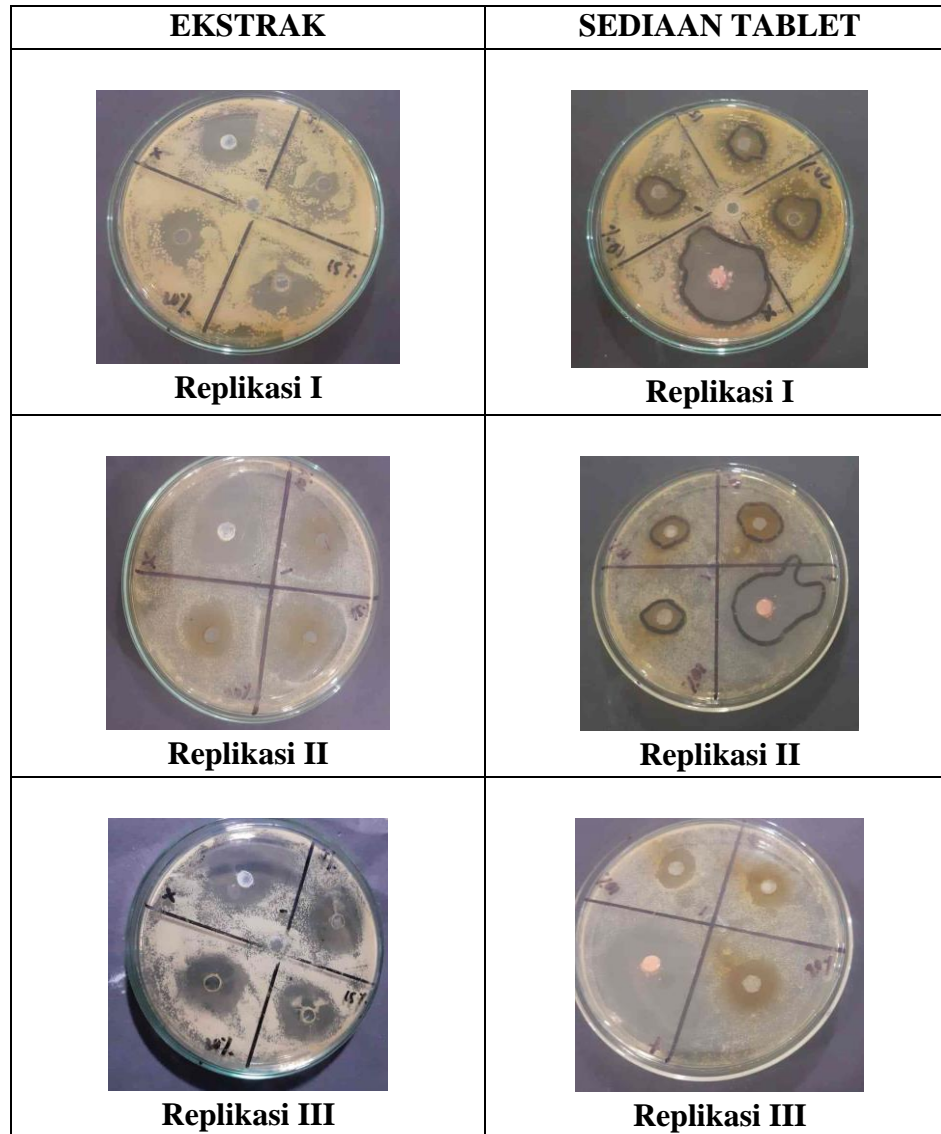
Menimbang SDC sebanyak 3 gram, tambahkan 100 ml aquadest, dipanaskan hingga larut kemudian tambahkan kloramfenikol 20 mg. Masukkan media ke dalam tabung reaksi dan tutup dengan kapas. Sterilkan dengan autoklaf selama 15 menit dengan suhu 120°C.

Lampiran 13. Hasil identifikasi jamur *Candida albicans* ATCCC 10231

 <p>Serum kelinci</p>	 <p>Biakan jamur</p>
 <p>Mikroskopis</p>	 <p>Makroskopis</p>
 <p>Glukosa</p>	 <p>Maltosa</p>
 <p>Laktosa</p>	 <p>Sukrosa</p>

Lampiran 14. Hasil suspensi jamur *Candida albicans* ATCC 10231



Lampiran 15. Hasil uji antijamur *Candida albicans* ATCC 10231

Zona hambat ekstrak

Konsentrasi	Zona hambat (mm)			
	Replikasi I	Replikasi II	Replikasi III	rata-rata ± SD
Ekstrak 10%	11	15,3	15,7	14 ± 2,61
Ekstrak 15%	15,7	16,9	16,7	16,7 ± 0,64
Ekstrak 20%	17,2	17,4	17,6	17,4 ± 0,20
K+	25,7	30,7	29,7	28,7 ± 2,65
K-	0	0	0	0

Zona hambat tablet hisap

Zona hambat (mm)				
Formula	Replikasi I	Replikasi II	Replikasi III	rata-rata \pm SD
F1 10%	11,2	14,3	15	13,5 \pm 2,02
FII 15%	14	16,2	16,3	15,5 \pm 1,06
FIII 20%	17	17	17,3	17,1 \pm 0,17
K+	27,3	30	32	29,8 \pm 2,37
K-	0	0	0	0

Lampiran 16. Data hasil analisis uji statistik

16.a. Waktu alir

Oneway

Descriptives

Kekerasan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	6	10.4667	.34448	.14063	10.1052	10.8282	10.10	10.90
F2	6	11.0167	.27142	.11081	10.7318	11.3015	10.60	11.40
F3	6	11.5500	.39370	.16073	11.1368	11.9632	11.00	12.00
kontrol negatif	6	10.1667	.16330	.06667	9.9953	10.3380	10.00	10.40
Total	24	10.8000	.61148	.12482	10.5418	11.0582	10.00	12.00

Oneway

Test of Homogeneity of Variances

Kekerasan			
Levene Statistic	df1	df2	Sig.
1.776	3	20	.184

ANOVA

Kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6.730	3	2.243	23.993	.000
Within Groups	1.870	20	.094		
Total	8.600	23			

Post Hoc Tests
Homogeneous Subsets

Kekerasan

Duncan^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
kontrol negatif	6	10.1667		
F1	6	10.4667		
F2	6		11.0167	
F3	6			11.5500
Sig.		.105	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

16.b Sudut diam

Descriptives

Sudut diam

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
FI	3	26.9067	.37687	.21759	25.9705	27.8429	26.51	27.26
F2	3	27.2367	.35642	.20578	26.3513	28.1221	26.84	27.53
F3	3	27.1767	.16503	.09528	26.7667	27.5866	27.01	27.34
Kontrol negatif	3	27.5567	.26102	.15070	26.9082	28.2051	27.31	27.83
Total	12	27.2192	.35290	.10187	26.9949	27.4434	26.51	27.83

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	Df	Sig.	Statistic	df	Sig.
Sudut diam	FI	.212	3	.	.990	3	.810
	F2	.281	3	.	.937	3	.515
	F3	.177	3	.	1.000	3	.967
	Kontrol negatif	.207	3	.	.992	3	.831

a. Lilliefors Significance Correction

Oneway**Test of Homogeneity of Variances**

Sudut diam

Levene Statistic	df1	df2	Sig.
.760	3	8	.547

ANOVA

Sudut diam

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.641	3	.214	2.345	.149
Within Groups	.729	8	.091		
Total	1.370	11			

Post Hoc Tests**Homogeneous Subsets****Sudut diam**Duncan^a

Formula	N	Subset for alpha = 0.05	
		1	2
FI	3	26.9067	
F3	3	27.1767	27.1767
F2	3	27.2367	27.2367
Kontrol negative	3		27.5567
Sig.		.235	.177

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

16.c. Susut pengeringan

NPar Tests

Kruskal-Wallis Test

Ranks			
	Formula	N	Mean Rank
Susut pengeringan	F1	1	3.00
	F2	1	2.00
	F3	1	4.00
	Kontrol negative	1	1.00
	Total	4	

Test Statistics^{a,b}

Susut pengeringan	
Chi-Square	3.000
Df	3
Asymp. Sig.	.392

a. Kruskal Wallis Test

b. Grouping Variable: Formula

16.d. Keseragaman bobot

Descriptives

Keseragaman bobot								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	20	501.5000	3.22000	.72001	499.9930	503.0070	497.00	509.00
F2	20	502.3000	4.50847	1.00812	500.1900	504.4100	495.00	515.00
F3	20	500.8000	4.21276	.94200	498.8284	502.7716	495.00	514.00
Kontrol negative	20	500.1500	2.75824	.61676	498.8591	501.4409	495.00	508.00
Total	80	501.1875	3.75885	.42025	500.3510	502.0240	495.00	515.00

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	Df	Sig.	Statistic	Df	Sig.
Keseragaman bobot	F1	.262	20	.001	.862	20	.008
	F2	.205	20	.027	.848	20	.005
	F3	.275	20	.000	.810	20	.001
	Kontrol negatif	.272	20	.000	.868	20	.011

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

Keseragaman bobot

Levene Statistic	df1	df2	Sig.
1.073	3	76	.366

ANOVA

Keseragaman bobot

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	51.238	3	17.079	1.219	.309
Within Groups	1064.950	76	14.013		
Total	1116.188	79			

Post Hoc Tests

Homogeneous Subsets

Keseragaman bobot

Duncan^a

Formula	N	Subset for alpha = 0.05	
		1	
Kontrol negatif	20	500.1500	
F3	20	500.8000	
F1	20	501.5000	
F2	20	502.3000	
Sig.		.101	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 20.000.

16.e. Kekerasan

Descriptives

Kekerasan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	6	10.4667	.34448	.14063	10.1052	10.8282	10.10	10.90
F2	6	11.0167	.27142	.11081	10.7318	11.3015	10.60	11.40
F3	6	11.5500	.39370	.16073	11.1368	11.9632	11.00	12.00
kontrol negatif	6	10.1667	.16330	.06667	9.9953	10.3380	10.00	10.40
Total	24	10.8000	.61148	.12482	10.5418	11.0582	10.00	12.00

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	Df	Sig.
Kekerasan	F1	.281	6	.152	.869	6	.223
	F2	.191	6	.200*	.973	6	.911
	F3	.217	6	.200*	.909	6	.432
	kontrol negatif	.180	6	.200*	.920	6	.505

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

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

Kekerasan			
Levene Statistic	df1	df2	Sig.
1.776	3	20	.184

ANOVA**Kekerasan**

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	6.730	3	2.243	23.993	.000
Within Groups	1.870	20	.094		
Total	8.600	23			

Post Hoc Tests**Homogeneous Subsets****Kekerasan**Duncan^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
kontrol negatif	6	10.1667		
F1	6	10.4667		
F2	6		11.0167	
F3	6			11.5500
Sig.		.105	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

16.f. Kerapuhan**Descriptives**

Kerapuhan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	3	.2333	.02517	.01453	.1708	.2958	.21	.26
F2	3	.2900	.01732	.01000	.2470	.3330	.28	.31
F3	3	.3333	.03786	.02186	.2393	.4274	.29	.36
Kontrol negative	3	.2133	.01528	.00882	.1754	.2513	.20	.23
Total	12	.2675	.05396	.01558	.2332	.3018	.20	.36

One-Sample Kolmogorov-Smirnov Test

		Residual for Kerapuhan
N		12
Normal Parameters ^{a,b}	Mean	.0000
	Std. Deviation	.02174
Most Extreme Differences	Absolute	.195
	Positive	.144
	Negative	-.195
Test Statistic		.195
Asymp. Sig. (2-tailed)		.200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

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

Test of Homogeneity of Variances

Kerapuhan

Levene Statistic	df1	df2	Sig.
1.778	3	8	.229

ANOVA

Kerapuhan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.027	3	.009	13.756	.002
Within Groups	.005	8	.001		
Total	.032	11			

Post Hoc Tests
Homogeneous Subsets

Kerapuhan			
Duncan ^a			
Formula	N	Subset for alpha = 0.05	
		1	2
Kontrol negative	3	.2133	
F1	3	.2333	
F2	3		.2900
F3	3		.3333
Sig.		.365	.071

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

16.g. Waktu larut

Descriptives

Waktu larut

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	6	4.8850	.68014	.27767	4.1712	5.5988	3.99	5.81
F2	6	5.2783	.46396	.18941	4.7914	5.7652	4.87	6.14
F3	6	5.3083	.52758	.21538	4.7547	5.8620	4.83	6.21
Kontrol negatif	6	5.2350	.51694	.21104	4.6925	5.7775	4.60	6.14
Total	24	5.1767	.54430	.11110	4.9468	5.4065	3.99	6.21

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Waktu larut	F1	.194	6	.200*	.962	6	.833
	F2	.308	6	.077	.828	6	.103
	F3	.241	6	.200*	.873	6	.239
	Kontrol negative	.245	6	.200*	.935	6	.616

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

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

Waktu larut

Levene Statistic	df1	df2	Sig.
.765	3	20	.527

ANOVA

Waktu larut

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.697	3	.232	.759	.530
Within Groups	6.117	20	.306		
Total	6.814	23			

Post Hoc Tests

Homogeneous Subsets

Waktu larut

Duncan^a

Formula	N	Subset for alpha = 0.05
		1
F1	6	4.8850
Kontrol negative	6	5.2350
F2	6	5.2783
F3	6	5.3083
Sig.		.238

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

**16.h. Stabilitas tablet hisap
- Uji kekerasan tablet setelah hari ke-12**

Descriptives

Kekerasan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
FI	6	8.9833	.92394	.37720	8.0137	9.9529	7.50	10.00
F2	6	9.8500	.24290	.09916	9.5951	10.1049	9.50	10.10
F3	6	8.7167	.90646	.37006	7.7654	9.6679	7.60	9.80
Kontrol negative	6	10.1167	.2	.21357	9.5677	10.6657	9.50	11.00
Total	24	9.4167	.88890	.18145	9.0413	9.7920	7.50	11.00

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kekerasan	FI	.145	6	.200*	.953	6	.762
	F2	.248	6	.200*	.871	6	.230
	F3	.194	6	.200*	.922	6	.520
	Kontrol negatif	.255	6	.200*	.938	6	.643

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Kekerasan

Levene Statistic	df1	df2	Sig.
2.874	3	20	.062

ANOVA

Kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.133	3	2.711	5.401	.007
Within Groups	10.040	20	.502		
Total	18.173	23			

Post Hoc Tests

Homogeneous Subsets

Kekerasan

Duncan^a

Formula	N	Subset for alpha = 0.05	
		1	2
F3	6	8.7167	
F1	6	8.9833	
F2	6		9.8500
Kontrol negatif	6		10.1167
Sig.		.522	.522

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

- Uji waktu larut tablet hisap setelah hari ke-12

Descriptives

Waktu larut

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
F1	6	4.2083	.65883	.26897	3.5169	4.8997	3.20	5.00
F2	6	4.7150	.41956	.17128	4.2747	5.1553	4.15	5.11
F3	6	4.4733	.48463	.19785	3.9647	4.9819	3.72	5.00
Kontrol negatif	6	4.7200	.47045	.19206	4.2263	5.2137	4.10	5.15
Total	24	4.5292	.52723	.10762	4.3065	4.7518	3.20	5.15

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Waktu	F1	.153	6	.200*	.964	6	.851
larut	F2	.252	6	.200*	.823	6	.094
	F3	.180	6	.200*	.941	6	.666
	Kontrol negatif	.339	6	.030	.769	6	.031

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Waktu larut

Levene Statistic	df1	df2	Sig.
.501	3	20	.686

ANOVA

Waktu larut

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.062	3	.354	1.328	.293
Within Groups	5.331	20	.267		
Total	6.393	23			

Post Hoc Tests

Homogeneous Subsets

Waktu larut

Duncan^a

Formula	N	Subset for alpha = 0.05	
		1	
F1	6	4.2083	
F3	6	4.4733	
F2	6	4.7150	
Kontrol negative	6	4.7200	
Sig.		.130	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

17.i. Aktivitas antijamur Zona hambat ekstrak

Descriptives

Zona hambat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Ekstrak 10%	3	14.0000	2.60576	1.50444	7.5269	20.4731	11.00	15.70
Ekstrak 15%	3	16.4333	.64291	.37118	14.8363	18.0304	15.70	16.90
Ekstrak 20%	3	17.4000	.20000	.11547	16.9032	17.8968	17.20	17.60
Kontrol negatif	3	.0000	.00000	.00000	.0000	.0000	.00	.00
Kontrol positif	3	28.7000	2.64575	1.52753	22.1276	35.2724	25.70	30.70
Total	15	15.3067	9.60502	2.48001	9.9876	20.6257	.00	30.70

Tests of Normality^b

	Konsentrasi	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	Df	Sig.	Statistic	df	Sig.
Zona hambat	Ekstrak 10%	.358	3	.	.813	3	.147
	Ekstrak 15%	.328	3	.	.871	3	.298
	Ekstrak 20%	.175	3	.	1.000	3	1.000
	Kontrol positif	.314	3	.	.893	3	.363

a. Lilliefors Significance Correction

b. Zona hambat is constant when Formula = Kontrol negatif. It has been omitted.

Oneway

Test of Homogeneity of Variances

Zona hambat

Levene Statistic	df1	df2	Sig.
8.040	4	10	.004

Tests of Between-Subjects Effects

Dependent Variable: Zona hambat

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1263.103 ^a	4	315.776	110.850	.000
Intercept	3514.411	1	3514.411	1233.704	.000
Formula	1263.103	4	315.776	110.850	.000
Error	28.487	10	2.849		
Total	4806.000	15			
Corrected Total	1291.589	14			

a. R Squared = .978 (Adjusted R Squared = .969)

Multiple Comparisons

Dependent Variable: Zona hambat

Tukey HSD

(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Ekstrak 10%	Ekstrak 15%	-2.4333	1.37808	.441	-6.9687	2.1020
	Ekstrak 10%	-3.4000	1.37808	.175	-7.9354	1.1354
	Kontrol positif	-14.7000*	1.37808	.000	-19.2354	-10.1646
	Kontrol negatif	14.0000*	1.37808	.000	9.4646	18.5354
Ekstrak 15%	Ekstrak 10%	2.4333	1.37808	.441	-2.1020	6.9687
	Ekstrak 20%	-.9667	1.37808	.952	-5.5020	3.5687
	Kontrol positif	-12.2667*	1.37808	.000	-16.8020	-7.7313
	Kontrol negatif	16.4333*	1.37808	.000	11.8980	20.9687
Ekstrak 20%	Ekstrak 10%	3.4000	1.37808	.175	-1.1354	7.9354
	Ekstrak 15%	.9667	1.37808	.952	-3.5687	5.5020
	Kontrol positif	-11.3000*	1.37808	.000	-15.8354	-6.7646

	Kontrol negatif	17.4000*	1.37808	.000	12.8646	21.9354
Kontrol positif	Ekstrak 10%	14.7000*	1.37808	.000	10.1646	19.2354
	Ekstrak 15%	12.2667*	1.37808	.000	7.7313	16.8020
	Ekstrak 20%	11.3000*	1.37808	.000	6.7646	15.8354
	Kontrol negatif	28.7000*	1.37808	.000	24.1646	33.2354
Kontrol negatif	Ekstrak 10%	-14.0000*	1.37808	.000	-18.5354	-9.4646
	Ekstrak 15%	-16.4333*	1.37808	.000	-20.9687	-11.8980
	Ekstrak 20%	-17.4000*	1.37808	.000	-21.9354	-12.8646
	Kontrol positif	-28.7000*	1.37808	.000	-33.2354	-24.1646

Based on observed means.

The error term is Mean Square(Error) = 2.849.

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

Post Hoc Tests

Homogeneous Subsets

Zona hambat

Tukey HSD^{a,b}

Konsentrasi	N	Subset		
		1	2	3
Kontrol negatif	3	.0000		
Ekstrak 10%	3		14.0000	
Ekstrak 15%	3		16.4333	
Ekstrak 20%	3		17.4000	
Kontrol positif	3			28.7000
Sig.		1.000	.175	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.849.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = ,05.

Zona hambat tablet hisap**One-Sample Kolmogorov-Smirnov Test**

		Unstandardized Residual
N		12
Normal Parameters ^{a,b}	Mean	.0000000
	Std. Deviation	3.40858097
Most Extreme Differences	Absolute	.140
	Positive	.140
	Negative	-.138
Test Statistic		.140
Asymp. Sig. (2-tailed)		.200 ^{c,d}

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

Levene's Test of Equality of Error Variances^a

Dependent Variable: Zona hambat

F	df1	df2	Sig.
2.521	3	8	.132

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

- a. Design: Intercept + Formula

Tests of Between-Subjects Effects

Dependent Variable: Zona hambat

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	486.080 ^a	3	162.027	56.985	.000
Intercept	4316.813	1	4316.813	1518.223	.000
Formula	486.080	3	162.027	56.985	.000
Error	22.747	8	2.843		
Total	4825.640	12			
Corrected Total	508.827	11			

- a. R Squared = .955 (Adjusted R Squared = .939)

Post Hoc Tests**Multiple Comparisons**

Dependent Variable: Zona hambatan

(I) Formula	(J) Formula	Mean Difference (I-J)	Tukey HSD		95% Confidence Interval	
			Std. Error	Sig.	Lower Bound	Upper Bound
F1	F2	-2.0000	1.37679	.505	-6.4090	2.4090
	F3	-3.6000	1.37679	.115	-8.0090	.8090
	Kontrol positif	-16.2667*	1.37679	.000	-20.6756	-11.8577
F2	F1	2.0000	1.37679	.505	-2.4090	6.4090
	F3	-1.6000	1.37679	.665	-6.0090	2.8090
	Kontrol positif	-14.2667*	1.37679	.000	-18.6756	-9.8577
F3	F1	3.6000	1.37679	.115	-.8090	8.0090
	F2	1.6000	1.37679	.665	-2.8090	6.0090
	Kontrol positif	-12.6667*	1.37679	.000	-17.0756	-8.2577
Kontrol positif	F1	16.2667*	1.37679	.000	11.8577	20.6756
	F2	14.2667*	1.37679	.000	9.8577	18.6756
	F3	12.6667*	1.37679	.000	8.2577	17.0756

Based on observed means.

The error term is Mean Square(Error) = 2.843.

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

Zona hambatanTukey HSD^{a,b}

Formula	N	Subset	
		1	2
F1	3	13.5000	
F2	3	15.5000	
F3	3	17.1000	
Kontrol positif	3		29.7667
Sig.		.115	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.843.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = .05.