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Lampiran 1. Sertifikat bakteri *Staphylococcus epidermidis* ATCC 12228

 KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET
DAN TEKNOLOGI
UNIVERSITAS SEBELAS MARET
FAKULTAS KEDOKTERAN
LABORATORIUM MIKROBIOLOGI
Jl. Ir. Sutami Nomor 36A Kentingan Surakarta 57126 Telp. (0271) 632489

SURAT PERNYATAAN

Saya yang bertandatangan dibawah ini :

Nama : Maryani, dr., M.Si., Sp.MK
Jabatan : Kepala Laboratorium Mikrobiologi Fakultas Kedokteran
Institusi : Universitas Sebelas Maret Surakarta

Menyatakan bahwa benar telah ditemukan kuman : *Staphylococcus epidermidis* ATCC 12228.

Demikian surat ini dibuat dengan sebenar-benarnya dan agar dapat dipergunakan sebagaimana semestinya.

Surakarta, 27 Oktober 2021
Mengetahui,
Ka. Lab. Mikrobiologi FK UNS


Maryani, dr., M.Si., Sp.MK
NIP. 196611201997022001

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Lampiran 2. Determinasi tanaman



UPT-LABORATORIUM

Nomor : 300/DET/UPT-LAB/10.11.2021

Hal : Hasil determinasi tumbuhan

Lamp. : -

Nama Pemesan : Wilis Dharmastuti

NIM : 24185635A

Alamat : Program Studi S1 Farmasi, Universitas Setia Budi, Surakarta

Nama sampel : Bandotan (*Ageratum conyzoides* L.)

HASIL DETERMINASI TUMBUHAN

Klasifikasi :
 Kingdom : Plantae
 Super divisi : Spermatophyta
 Divisi : Magnoliophyta
 Kelas : Magnoliopsida
 Ordo :
 Familia : Compositae
 Genus : *Ageratum*
 Species : *Ageratum conyzoides* L.

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :

1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 14a – 15a. golongan 8. 109b – 119b – 120b – 128b – 129b – 135b – 136b – 139b – 140b – 142b – 143b – 146b – 154a. familia 121. Compositae. 1a – 2b – 3b – 4b – 5b – 11b. 11. *Ageratum*. *Ageratum conyzoides* L.

Deskripsi:

Habitus : Herba, tinggi 0,1 – 0,2 meter.

Akar : Sistem akar tunggang.

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Homepage : www.setiabudi.ac.id, e-mail : Info@setiabudi.ac.id

- Batang : Batang bulat, tegak atau berbaring, dari bagian ini keluar akar, berambut jarang.
- Daun : Daun tunggal, daun bawah berhadapan dan bertangkai cukup panjang; yang teratas tersebar dan bertangkai pendek; hulatelur, beringgit, panjang 3,8 – 6,5 cm, lebar 3 – 4,2 cm, kedua sisinya berambut panjang, sisi bawah juga dengan kelenjar yang duduk.
- Bunga : Bunga bongkol berkelamin satu macam, 3 atau lebih berkumpul jadi karangan bunga bentuk malai rata yang terminal. Bongkol 6 – 8 mm panjangnya, pada tangkai berambut. Daun pembalut dalam 2 – 3 lingkaran, runcing, tidak sama, berambut sangat jarang atau gundul. Dasar bunga bersama tanpa sisik. Bunga sama panjang dengan pembalut. Mahkota dengan tabung sempit dan pinggiran sempit bentuk lonceng, berlekuk 5, panjang 1 – 1,5 mm.
- Buah : Buah keras bersegi 5 runcing. Rambut sisik pada buah 5, putih, 2 – 3,5 mm panjangnya.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 10 November 2021

Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati, M.Sc.

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

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Lampiran 3. Pembuatan serbuk daun bandotan

Perhitungan persentase rendemen simplisia daun bandotan :

$$\% \text{ Rendemen} = \frac{1900g}{9000g} \times 100\% = 21,11\%$$

Lampiran 4. Perhitungan rendemen serbuk

$$\frac{1800g}{1900g} \times 100\% = 94,73\%$$

Lampiran 5. Pemeriksaan organoleptik serbuk daun bandotan**Lampiran 6. Pemeriksaan susut pengeringan serbuk**

Lampiran 7. Penetapan kadar air serbuk



Perhitungan kadar air serbuk daun bandotan

Replikasi 1

$$\begin{aligned} \text{Kadar air} &= \frac{\text{volume air}}{\text{berat serbuk}} \times 100\% \\ &= \frac{0,8 \text{ ml}}{10 \text{ g}} \times 100\% \\ &= 8\% \end{aligned}$$

Replikasi 2





$$\begin{aligned} \text{Kadar air} &= \frac{\text{volume air}}{\text{berat serbuk}} \times 100\% \\ &= \frac{0,8 \text{ ml}}{10 \text{ g}} \times 100\% \\ &= 8\% \end{aligned}$$

Replikasi 3

$$\begin{aligned} \text{Kadar air} &= \frac{\text{volume air}}{\text{berat serbuk}} \times 100\% \\ &= \frac{0,9 \text{ ml}}{10 \text{ g}} \times 100\% \\ &= 9\% \end{aligned}$$

$$\text{Rata-rata} = \frac{8\% + 8\% + 9\%}{3} = 8,3\%$$

Lampiran 8. Pembuatan ekstrak

 <p>Proses ekstraksi</p>	 <p>Penyaringan filtrat</p>
 <p>Evaporasi dengan rotary evaporator.</p>	 <p>Ekstrak kental daun bandotan</p>

Perhitungan nilai rendemen ekstrak

$$\text{Persentase rendemen} = \frac{185 \text{ g}}{800 \text{ g}} \times 100\% = 23,13\%$$

Lampiran 9. Penetapan kadar air ekstrak daun bandotan



Perhitungan penetapan kadar air ekstrak daun bandotan

$$\text{Kadar air} = \frac{\text{Bobot sampel sebelum dikeringkan} - \text{Bobot sampel setelah dikeringkan}}{\text{Bobot sampel sebelum dikeringkan}} \times 100\%$$

$$\text{Replikasi 1} = \frac{50,0581 - 40,046}{50,0581} \times 100\% = 2,8522\%$$








$$\text{Replikasi 2} = \frac{50,5177 - 40,5149}{50,5177} \times 100\% = 2,8896\%$$

$$\begin{aligned} \text{Replikasi 3} &= \frac{43,5356 - 33,5319}{43,5356} \times 100\% = 2,9100\% \\ \text{Rata-rata kadar air ekstrak} &= \frac{2,8522\% + 2,8896\% + 2,9100\%}{3} \\ &= 2,8839\% \end{aligned}$$

Lampiran 10. Pengujian bebas etanol



Lampiran 11. Pemeriksaan kandungan kimia pada ekstrak

<p>Uji Flavonoid</p> 	<p>Uji saponin</p> 
<p>Uji alkaloid pereaksi <i>mayer</i></p> 	<p>Uji alkaloid pereaksi <i>wagner</i></p> 
<p>Uji alkaloid pereaksi <i>daagendorff</i></p> 	<p>Uji tanin</p> 
<p>Uji terpenoid</p> 	

Lampiran 12. Sertifikat bahan

Certificate of Analysis

Description	Polyvinyl alcohol 72000 BioChemica
Product number	A2255
CAS number	9002-89-5
Molecular weight	approx. 72000 g/mol
Formula	
Lot number	2X084470
QC release date	06.06.2012
Next retest	06.2017

Parameter	Specification	Analysis
Appearance	white powder	white powder
Assay	min. 98 %	> 98 %
Loss on drying	max. 5 %	2.9 %

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I.A. Kay Schubert
Quality Control

I.A. Katrin Wünsche
Quality Control

The manufacture of this product is carried out with greatest care. We guarantee the above details assessed by our QM system. The suitability for special applications is not guaranteed. The certificate of analysis does not release you from performing the standard control upon receipt of incoming goods.



COA PVA



Certificate of Analysis

(Representative Sample Certificate)

Product Name: Hydroxypropyl Methylcellulose
INCI Name: Hydroxypropyl methylcellulose
CAS Number: 9004-65-3
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 36 months from production date

Analytical Tests	Specification	Analysis
Appearance	Off-white to yellowish powder	pass
Odor	Characteristic	pass
Viscosity, 2% in water at 20°C	60,000-90,000	83,921
Moisture as packaged	<7.0%	2.5
Sodium Chloride	<5.0%	0.4
Particle Size, thru 40 U.S. Std. Sieve	>99	100

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

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Lampiran 13. Pemeriksaan organoleptik dan homogenitas sediaan masker *peel off* daun bandotan



Sediaan masker *peel off* ekstrak daun bandotan



Uji organoleptik sediaan sebelum *cycling test*



Uji Organoleptik Sediaan setelah *cycling test*

Pemeriksaan uji homogenitas sediaan masker *peel off* daun bandotan



Lampiran 14. Uji viskositas sediaan masker *peel off* daun bandotan



Formula	Replikasi	sebelum cycling	seteelah cycling
basis	1	300	210
	2	315	230
	3	310	190
Formula 1	1	320	310
	2	280	280
	3	310	230
Formula 2	1	340	240
	2	310	245
	3	325	230
Formula 3	1	340	280
	2	350	250
	3	330	260
Formula 4	1	390	270
	2	370	300
	3	360	280
Formula 5	1	400	310
	2	410	340
	3	380	320

Lampiran 15. Hasil analisis uji viskositas sediaan masker *peel off* daun bandotan

Uji normalitas *Shapiro wilk*, Uji *Oneway Anova*, Uji *Post hoc Tukey*

Tests of Normality

	Uji_Viskositas	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Sebelum_Cycling	Formula 1	.292	3	.	.923	3	.463
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.175	3	.	1.000	3	1.000
	Formula 4	.253	3	.	.964	3	.637
	Formula 5	.253	3	.	.964	3	.637
	Formula 6 (basis)	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	dFI	dFII	Sig.
Sebelum_Cycling	Based on Mean	.805	5	12	.567
	Based on Median	.274	5	12	.919
	Based on Median and with adjusted df	.274	5	7.851	.915
	Based on trimmed mean	.760	5	12	.595

ANOVA

Sebelum_Cycling

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	20661.111	5	4132.222	19.319	.000
Within Groups	2566.667	12	213.889		
Total	23227.778	17			

Post Hoc Tests

Homogeneous Subsets

Sebelum_Cycling

Tukey HSD^a

Uji_Viskositas	N	Subset for alpha = 0.05		
		1	2	3
Formula 1	3	303.33		
Formula 6 (basis)	3	308.33		
Formula 2	3	325.00		
Formula 3	3	340.00	340.00	
Formula 4	3		373.33	373.33
Formula 5	3			396.67
Sig.		.081	.127	.418

Means for groups in homogeneous subsets are displayed.

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

Uji Paired T-test

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference Lower Upper			
Pair 1	F1_Sebelum - F1_Setelah	86.667	5.774	3.333	72.324 101.009	26.000	2	.001
Pair 2	F2_Sebelum - F2_Setelah	86.667	18.930	10.929	39.643 133.691	7.930	2	.016
Pair 3	F3_Sebelum - F3_Setelah	76.667	20.817	12.019	24.955 128.378	6.379	2	.024
Pair 4	F4_Sebelum - F4_Setelah	90.000	26.458	15.275	24.276 155.724	5.892	2	.028
Pair 5	F5_Sebelum - F5_Setelah	73.333	15.275	8.819	35.388 111.279	8.315	2	.014
Pair 6	F6_Sebelum - F6_Setelah	98.333	18.930	10.929	51.309 145.357	8.997	2	.012

Lampiran 16. Uji pH sediaan masker *peel off* ekstrak daun bandotan



Formula	Replikasi	sebelum cycling	setelah cycling
basis	1	5.19	4.92
	2	5.13	4.9
	3	5.17	4.95
Formula 1	1	4.63	4.57
	2	4.65	4.54
	3	4.62	4.51
Formula 2	1	4.71	4.65
	2	4.73	4.62
	3	4.74	4.64
Formula 3	1	4.85	4.72
	2	4.87	4.76
	3	4.84	4.73
Formula 4	1	4.98	4.84
	2	4.95	4.88
	3	4.92	4.86
Formula 5	1	5.05	4.92
	2	5.1	4.93
	3	5.08	4.96

Lampiran 17. Hasil analisis uji pH sediaan masker *peel off* ekstrak daun bandotan

Uji normalitas *Shapiro wilk*, Uji *OneWay Anova*, Uji *Post Hoc Tukey*.

Tests of Normality

uji_pH		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
sebelum_cycling	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.253	3	.	.964	3	.637
	Formula 4	.175	3	.	1.000	3	1.000
	Formula 5	.219	3	.	.987	3	.780
	Basis	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

ANOVA

sebelum_cycling

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.619	5	.124	234.629	.000
Within Groups	.006	12	.001		
Total	.625	17			

Post Hoc Tests

sebelum_cycling

Tukey HSD^a

uji_pH	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
Formula 1	3	4.6333					
Formula 2	3		4.7267				
Formula 3	3			4.8533			
Formula 4	3				4.9500		
Formula 5	3					5.0767	
Basis	3						5.1633
Sig.		1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

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

Uji Paire T-test

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	F1sebelum - F1sesudah	.09333	.02887	.01667	.02162	.16504	5.600	2	.030
Pair 2	F2sebelum - F2sesudah	.09000	.02646	.01528	.02428	.15572	5.892	2	.028
Pair 3	F3sebelum - F3sesudah	.11667	.01155	.00667	.08798	.14535	17.500	2	.003
Pair 4	F4sebelum - F4sesudah	.09000	.04359	.02517	-.01828	.19828	3.576	2	.070
Pair 5	F5sebelum - F5sesudah	.14000	.02646	.01528	.07428	.20572	9.165	2	.012
Pair 6	Basis_sebelum - Basis_sesudah	.24000	.02646	.01528	.17428	.30572	15.712	2	.004

Lampiran 18. Uji daya lekat sediaan masker *peel off* ekstrak daun bandotan



Formula	Replikasi	sebelum cycling test	sesudah cycling test
basis	1	4.05	2.86
	2	4.26	2.54
	3	4.31	2.64
Formula 1	1	4.45	2.61
	2	4.67	2.53
	3	4.32	2.78
Formula 2	1	5.74	3.75
	2	5.06	3.51
	3	5.57	3.46
Formula 3	1	6.83	5.12
	2	6.45	5.34
	3	6.68	5.86
Formula 4	1	8.38	6.84
	2	8.37	6.75
	3	8.93	6.13
Formula 5	1	9.46	7.92
	2	9.07	7.43
	3	9.14	7.39

Lampiran 19. Hasil analisis uji daya lekat sediaan masker *peel off* ekstrak daun bandotan
Uji normalitas *Shapiro wilk*, Uji *OneWay Anova*, Uji *Post Hoc Tukey*.

Tests of Normality

Uji_DayaLekat	Statistic	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Sebelum_Cycling	Formula 1	.260	3	.	.959	3	.609
	Formula 2	.325	3	.	.875	3	.309
	Formula 3	.270	3	.	.948	3	.561
	Formula 4	.343	3	.	.843	3	.223
	Formula 5	.361	3	.	.806	3	.130
	Formula 6 (basis)	.263	3	.	.955	3	.593

a. Lilliefors Significance Correction

ANOVA

Sebelum_Cycling

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	65.793	5	13.159	176.206	.000
Within Groups	.896	12	.075		
Total	66.689	17			

Sebelum_Cycling

Tukey HSD^a

Uji_DayaLekat	N	Subset for alpha = 0.05				
		1	2	3	4	5
Formula 1	3	2.6400				
Formula 6 (basis)	3	2.6800				
Formula 2	3		3.5733			
Formula 3	3			5.4400		
Formula 4	3				6.5733	
Formula 5	3					7.5800
Sig.		1.000	1.000	1.000	1.000	1.000

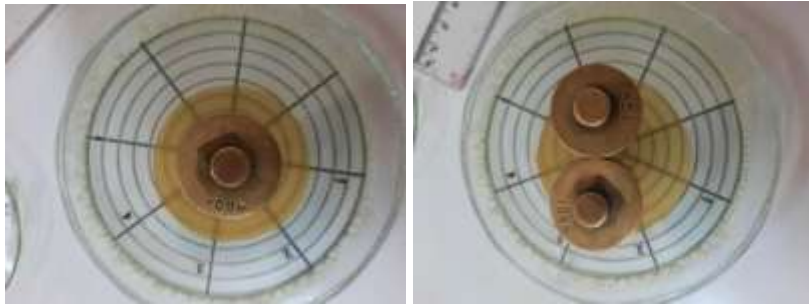
Means for groups in homogeneous subsets are displayed.

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

Uji Paired T-test

		Paired Samples Test								
		Paired Differences			95% Confidence Interval of the Difference			t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper				
Pair 1	F1_Sebelum - F1_Setelah	-1.84000	30000	.17321	-2.08524	-1.59476	-10.623	2	.009	
Pair 2	F2_Sebelum - F2_Setelah	-1.89333	20484	.17023	-2.61577	-1.15090	-11.084	2	.008	
Pair 3	F3_Sebelum - F3_Setelah	-1.21333	45291	.26206	-2.34091	-.08578	-4.630	2	.044	
Pair 4	F4_Sebelum - F4_Setelah	-2.02000	69147	.39345	-3.71286	-.32714	-5.134	2	.036	
Pair 5	F5_Sebelum - F5_Setelah	-1.64333	10504	.06064	-1.80427	-1.38240	-27.090	2	.001	
Pair 6	F6_Sebelum - F6_Setelah	-1.52667	29283	.16895	-2.25360	-.79973	-9.036	2	.012	

Lampiran 20. Uji daya sebar sediaan masker *peel off* ekstrak daun bandotan



Formula	beban	SEBELUM CYCLING TEST				
		Replikasi			rata-rata	SD
		1	2	3		
FI	tanpa beban	5.7	5.58	5.55	5.61	0.08
	50	5.8	5.70	5.67	5.72	0.07
	100	5.93	5.82	5.82	5.86	0.06
	150	6.03	5.90	5.9	5.94	0.08
	200	6.13	6	6	6.04	0.08
FII	tanpa beban	5.47	5.42	5.42	5.44	0.03
	50	5.6	5.5	5.63	5.58	0.07
	100	5.75	5.6	5.73	5.69	0.08
	150	6	5.7	5.82	5.84	0.15
	200	6.1	5.8	5.97	5.96	0.15
FIII	tanpa beban	5.38	5.32	5.37	5.36	0.03
	50	5.53	5.42	5.73	5.56	0.16
	100	5.73	5.5	5.58	5.60	0.12
	150	5.83	5.62	5.67	5.71	0.11
	200	5.93	5.72	5.8	5.82	0.11
FIV	tanpa beban	4.8	4.85	4.78	4.81	0.04
	50	5	4.93	4.8	4.91	0.10
	100	5.17	5.1	5.07	5.11	0.05
	150	5.27	5.27	5.23	5.26	0.02
	200	5.37	5.37	5.42	5.39	0.03
FV	tanpa beban	4.77	4.72	4.65	4.71	0.06
	50	4.9	4.8	4.9	4.87	0.06
	100	5	4.92	4.87	4.93	0.07
	150	5.1	5.07	4.97	5.05	0.07
	200	5.23	5.18	5.08	5.16	0.08
Basis	tanpa beban	5.63	5.56	5.42	5.54	0.11
	50	5.73	5.63	5.55	5.64	0.09
	100	5.83	5.73	5.67	5.74	0.08
	150	5.93	5.82	5.77	5.84	0.08
	200	6.03	5.93	5.88	5.95	0.08

Formula	beban	SETELAH SETELAH CYCLING TEST				
		Replikasi			rata-rata	SD
		1	2	3		
FI	tanpa beban	6.08	6.13	5.93	6.05	0.10
	50	6.15	6.22	6.18	6.18	0.04
	100	6.23	6.28	6.28	6.26	0.03
	150	6.30	6.37	6.4	6.36	0.05
	200	6.4	6.42	6.47	6.43	0.04
0	tanpa beban	5.87	5.8	5.82	5.83	0.04
FII	50	5.92	5.87	5.93	5.91	0.03
	100	6.1	6	6.08	6.06	0.05
	150	6.15	6.13	6.18	6.15	0.03
	200	6.22	6.2	6.23	6.22	0.02
	tanpa beban	5.65	5.6	5.57	5.61	0.04
	50	5.72	5.75	5.68	5.72	0.04
FIII	100	5.8	5.82	5.85	5.82	0.03
	150	5.9	5.95	5.98	5.94	0.04
	200	6.02	6.15	6.18	6.12	0.09
	tanpa beban	5.5	5.57	5.6	5.56	0.05
FIV	50	5.62	5.68	5.7	5.67	0.04
	100	5.7	5.73	5.78	5.74	0.04
	150	5.82	5.8	5.83	5.82	0.02
	200	5.9	5.88	5.92	5.90	0.02
	tanpa beban	5.22	5.18	5.2	5.20	0.02
	50	5.35	5.28	5.3	5.31	0.04
FV	100	5.4	5.37	5.42	5.40	0.03
	150	5.52	5.48	5.5	5.5	0.02
	200	5.68	5.58	5.63	5.63	0.05
	tanpa beban	5.9	5.88	5.87	5.88	0.02
Basis	50	6.15	6.1	6.13	6.13	0.03
	100	6.37	6.42	6.4	6.40	0.03
	150	6.58	6.68	6.58	6.61	0.06
	200	6.72	6.78	6.8	6.77	0.04

Lampiran 21. Hasil analisis uji daya sebar sediaan masker *peel off* ekstrak daun bandotan

		Tests of Normality					
		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
daya_sebar		Statistic	df	Sig.	Statistic	df	Sig.
tanpabeban	F1 sebelum	.314	3	.	.893	3	.363
	F2 sebelum	.301	3	.	.912	3	.424
	F3 sebelum	.353	3	.	.823	3	.170
	F4 sebelum	.276	3	.	.942	3	.537
	F5 sebelum	.211	3	.	.991	3	.817
	basis sebelum	.253	3	.	.964	3	.637
gram50	F1 sebelum	.301	3	.	.912	3	.424
	F2 sebelum	.301	3	.	.912	3	.424
	F3 sebelum	.356	3	.	.818	3	.157
	F4 sebelum	.245	3	.	.971	3	.672
	F5 sebelum	.385	3	.	.750	3	.000
	basis sebelum	.196	3	.	.996	3	.878
gram100	F1 sebelum	.385	3	.	.750	3	.000
	F2 sebelum	.340	3	.	.848	3	.235
	F3 sebelum	.246	3	.	.970	3	.668
	F4 sebelum	.269	3	.	.949	3	.567
	F5 sebelum	.227	3	.	.983	3	.747
	basis sebelum	.232	3	.	.980	3	.726
gram150	F1 sebelum	.385	3	.	.750	3	.000
	F2 sebelum	.219	3	.	.987	3	.780
	F3 sebelum	.298	3	.	.916	3	.439
	F4 sebelum	.385	3	.	.750	3	.000
	F5 sebelum	.301	3	.	.912	3	.424
	basis sebelum	.263	3	.	.955	3	.593
gram200	F1 sebelum	.385	3	.	.750	3	.000
	F2 sebelum	.202	3	.	.994	3	.853
	F3 sebelum	.219	3	.	.987	3	.780
	F4 sebelum	.385	3	.	.750	3	.000
	F5 sebelum	.253	3	.	.964	3	.637
	basis sebelum	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Uji *Kruskal wallis*

Test Statistics^{a,b}

	tanpabeban	gram50	gram100	gram150	gram200
Kruskal-Wallis H	12.293	15.176	14.854	13.997	14.384
df	5	5	5	5	5
Asymp. Sig.	.031	.010	.011	.016	.013

a. Kruskal Wallis Test

b. Grouping Variable: daya_sebar

Uji *Mann Whitney*Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	3.000	.000	.000	.000	.000
Wilcoxon W	9.000	8.000	6.000	6.000	6.000
Z	-.655	-1.964	-1.993	-1.993	-1.993
Asymp. Sig. (2-tailed)	.513	.050	.046	.046	.046
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	3.000	.000	.000	.000	.000
Wilcoxon W	9.000	6.000	6.000	6.000	6.000
Z	-.655	-1.964	-1.993	-1.993	-1.993
Asymp. Sig. (2-tailed)	.513	.050	.046	.046	.046
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	.000	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000	6.000
Z	-1.964	-1.964	-1.993	-2.023	-2.023
Asymp. Sig. (2-tailed)	.050	.050	.046	.043	.043
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	.000	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000	6.000
Z	-1.964	-1.993	-1.993	-1.993	-1.993
Asymp. Sig. (2-tailed)	.050	.046	.046	.046	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	3.000	2.000	2.000	2.000	2.000
Wilcoxon W	9.000	8.000	8.000	8.000	8.000
Z	-.655	-1.091	-1.107	-1.107	-1.107
Asymp. Sig. (2-tailed)	.513	.275	.268	.268	.268
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b	.400 ^b	.400 ^b	.400 ^b	.400 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	3.500	2.500	3.500	4.500	4.000
Wilcoxon W	9.500	8.500	9.500	10.500	10.000
Z	-.443	-.886	-.443	.000	-.218
Asymp. Sig. (2-tailed)	.658	.376	.658	1.000	.827
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b	.400 ^b	.700 ^b	1.000 ^b	1.000 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	.000	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000	6.000
Z	-1.964	-1.993	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.050	.046	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	.000	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000	6.000
Z	-1.964	-1.964	-1.964	-1.993	-1.993
Asymp. Sig. (2-tailed)	.050	.050	.050	.046	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	3.000	1.000	1.500	2.000	1.000
Wilcoxon W	9.000	7.000	7.500	8.000	7.000
Z	-.655	-1.528	-1.328	-1.091	-1.528
Asymp. Sig. (2-tailed)	.513	.127	.184	.275	.127
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b	.200 ^b	.200 ^b	.400 ^b	.200 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	.000	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000	6.000
Z	-1.964	-1.993	-1.964	-1.964	-1.964
Asymp. Sig. (2-tailed)	.050	.046	.050	.050	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	3.000	.000	1.500	2.000	1.500
Wilcoxon W	9.000	6.000	7.500	8.000	7.500
Z	-.655	-1.964	-1.328	-1.091	-1.328
Asymp. Sig. (2-tailed)	.513	.050	.184	.275	.184
Exact Sig. [2*(1-tailed Sig.)]	.700 ^b	.100 ^b	.200 ^b	.400 ^b	.200 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	.000	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000	6.000
Z	-1.964	-1.964	-1.964	-1.993	-1.993
Asymp. Sig. (2-tailed)	.050	.050	.050	.046	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

Test Statistics^a

	tanpabeban	gram50	gram100	gram150	gram200
Mann-Whitney U	.000	.000	.000	.000	.000
Wilcoxon W	6.000	6.000	6.000	6.000	6.000
Z	-1.964	-1.964	-1.964	-1.993	-1.993
Asymp. Sig. (2-tailed)	.050	.050	.050	.046	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b	.100 ^b	.100 ^b	.100 ^b	.100 ^b

a. Grouping Variable: daya_sebar

b. Not corrected for ties.

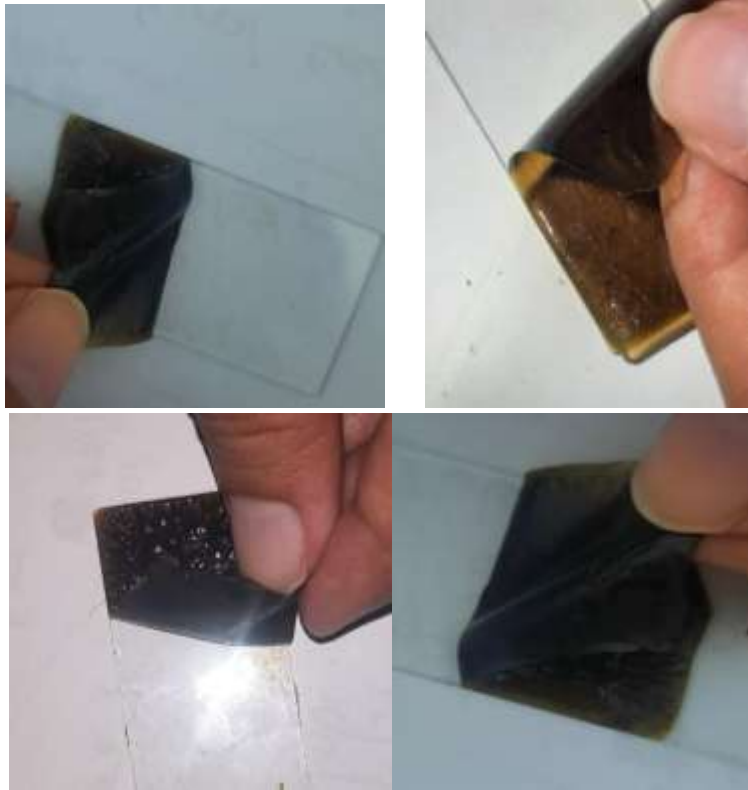
Uji Wilcoxon**Test Statistics^a**

	F1_sesudah - F1_sebelum	F2_sesudah - F2_sebelum	F3_sesudah - F3_sebelum	F4_sesudah - F4_sebelum	F5_sesudah - F5_sebelum	basis_sesud ah - basis_sebelu m
Z	-3.415 ^b	-2.696 ^b	-2.615 ^b	-3.181 ^b	-1.824 ^b	-3.089 ^b
Asymp. Sig. (2-tailed)	.001	.007	.009	.001	.068	.002

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

Lampiran 22. Uji waktu mengering sediaan masker *peel off* ekstrak daun bandotan



Formula	Replikasi	sebelum cycling	setelah cycling
Formula 1	1	17.29	16.45
	2	17.3	16.43
	3	17.28	16.44
Formula 2	1	18.24	17.23
	2	18.23	17.21
	3	18.25	17.22
Formula 3	1	19.17	18.41
	2	19.15	18.43
	3	19.16	18.42
Formula 4	1	20	19.33
	2	20	19.34
	3	20	19.35
Formula 5	1	21.4	20.56
	2	21.42	20.55
	3	21.41	20.54
	2	16.36	15.23
	3	16.37	15.21

**Lampiran 23. Hasil analisis uji waktu mengering sediaan masker
peel off ekstrak daun bandotan**

**Uji Normalitas Shapiro Wilk, Uji OneWay Anova, Uji Post Hoc Tukey
Tests of Normality**

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formulasi	.137	18	.200 [*]	.917	18	.114
Waktu_Mengering	.132	18	.200 [*]	.924	18	.153

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

a. Lilliefors Significance Correction

ANOVA

Waktu_Mengering

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	50.729	5	10.146	121750.080	.000
Within Groups	.001	12	.000		
Total	50.730	17			

Waktu_Mengering

Tukey HSD^a

Formulasi	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
1.00	3	16.3600					
2.00	3		17.2900				
3.00	3			18.2400			
4.00	3				19.1600		
5.00	3					20.0000	
6.00	3						21.4100
Sig.		1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

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

Uji **Paired T-test**

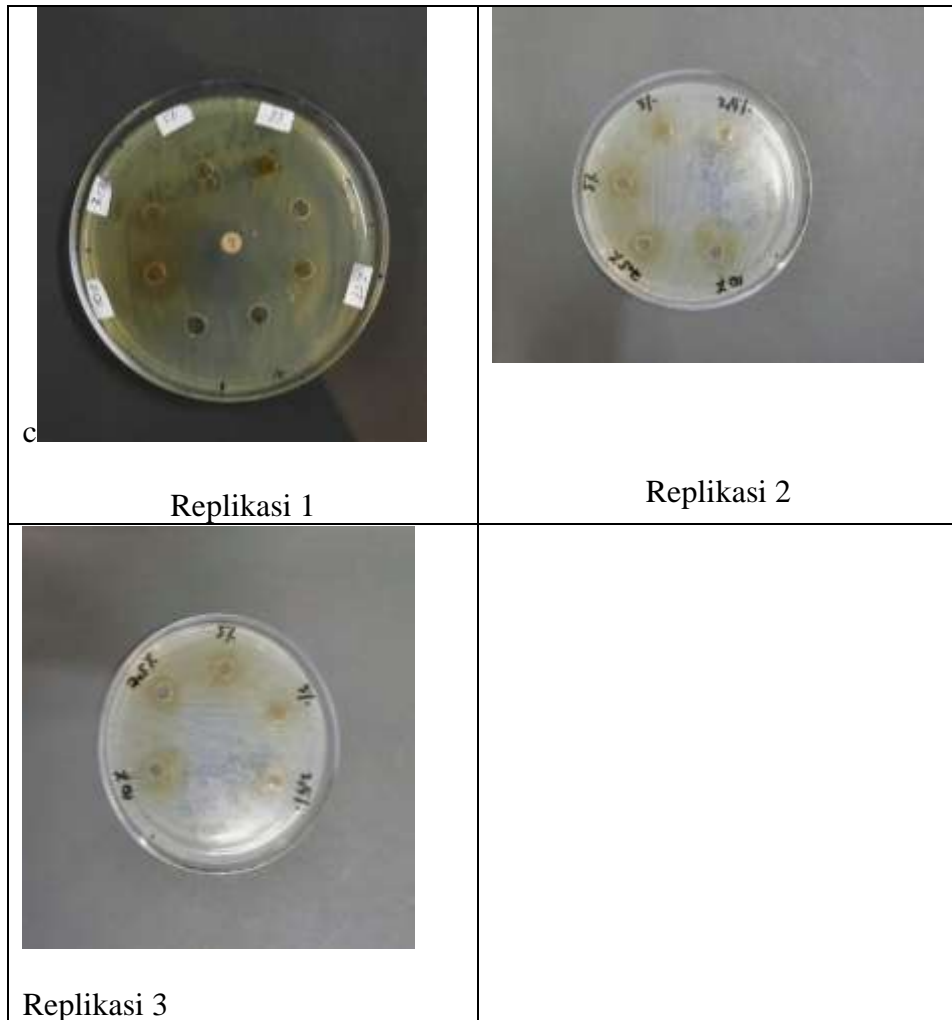
Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	KH_sebelum_cycling - KH_setelah_cycling	1.13667	.02082	.01202	1.08496	1.18838	94.576	2	.000
Pair 2	F1_sebelum_cycling - F1_setelah_cycling	.83000	.01732	.01000	.78697	.87303	83.000	2	.000
Pair 3	F2_sebelum_cycling - F2_setelah_cycling	1.05333	.16258	.09387	.64945	1.45721	11.221	2	.008
Pair 4	F3_sebelum_cycling - F3_setelah_cycling	.68000	.03606	.02082	.59043	.76957	32.666	2	.001
Pair 5	F4_sebelum_cycling - F4_setelah_cycling	.64333	.04163	.02404	.53991	.74676	26.764	2	.001
Pair 6	F5_sebelum_cycling - F5_setelah_cycling	.93333	.06145	.04702	.73101	1.13565	19.849	2	.003

Lampiran 24. Pembuatan suspensi bakteri



Lampiran 25. Uji aktivitas antibakteri ekstrak daun bandotan



Lampiran 26. Hasil analisis aktivitas antibakteri ekstrak

Tests of Normality							
	zona_hambat	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
konsentrasi	1	.212	3	.	.990	3	.811
	2	.314	3	.	.893	3	.363
	3	.290	3	.	.926	3	.473
	4	.225	3	.	.984	3	.757
	5	.265	3	.	.953	3	.583
	6	.	3	.	.	3	.
	7	.231	3	.	.980	3	.729

a. Lilliefors Significance Correction

Test of Homogeneity of Variances					
		Levene Statistic	dFI	dFII	Sig.
konsentra si	Based on Mean	2.936	6	14	.045
	Based on Median	.946	6	14	.494
	Based on Median and with adjusted df	.946	6	6.316	.524
	Based on trimmed mean	2.752	6	14	.056

ANOVA

konsentrasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1985.458	6	330.910	2812.833	.000
Within Groups	1.647	14	.118		
Total	1987.105	20			

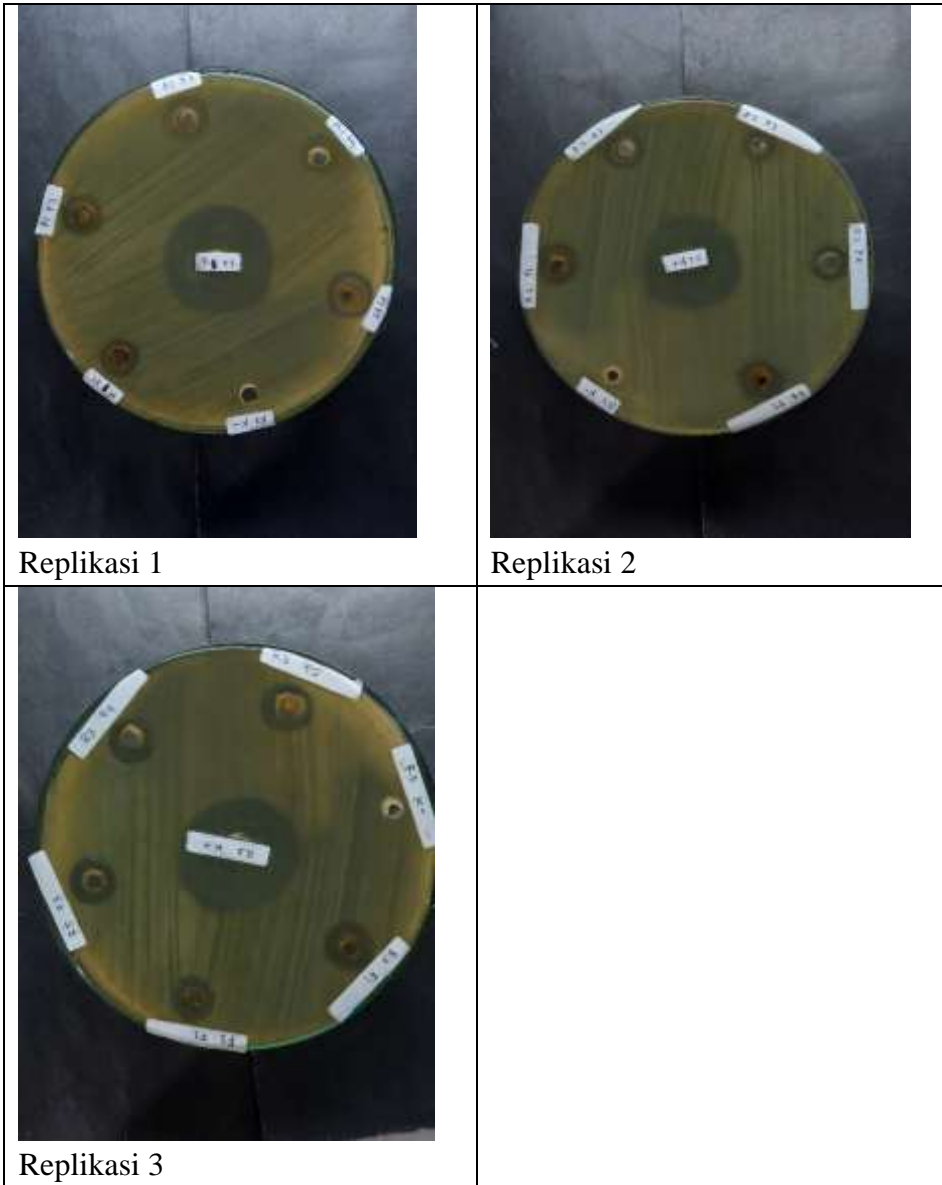
konsentrasi

		Subset for alpha = 0.05							
	zona_hambat	N	1	2	3	4	5	6	7
Tukey HSD ^a	6	3	.0000						
	1	3		3.0433					
	2	3			7.9000				
	3	3				10.2867			
	4	3					12.2833		
	5	3						15.2600	
	7	3							32.2100
	Sig.			1.000	1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 27. Uji aktivitas antibakteri sediaan masker *peel off* ekstrak daun bandotan



Lampiran 28. Hasil analisis uji aktivitas antibakteri sediaan masker *peel off* ekstrak daun bandotan

Tests of Normality								
	zona_hambat	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
		Statistic	df	Sig.	Statistic	df	Sig.	
formulasi	1	.362	3	.	.805	3	.127	
	2	.178	3	.	.999	3	.952	
	3	.234	3	.	.978	3	.719	
	4	.372	3	.	.781	3	.069	
	5	.308	3	.	.902	3	.391	
	6	.	3	.	.	3	.	
	7	.312	3	.	.896	3	.374	

a. Lilliefors Significance Correction

ANOVA

formulasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2526.555	6	421.092	5080.690	.000
Within Groups	1.160	14	.083		
Total	2527.715	20			

formulasi

Tukey HSD^a

zona_hambat	N	Subset for alpha = 0.05		
		1	2	3
6	3	.0000		
1	3		14.3867	
3	3		14.6000	
4	3		14.6600	
5	3		14.6900	
2	3		14.8367	
7	3			40.0200
Sig.		1.000	.503	1.000

Means for groups in homogeneous subsets are displayed.

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