


LAMPIRAN

Lampiran 1. Hasil Uji Determinasi



BAGIAN BIOLOGI FARMASI
FAKULTAS FARMASI
UNIVERSITAS GADJAH MADA YOGYAKARTA
 Alamat: Sekip Utara Jl. Kaliurang Km 4, Yogyakarta 55281
 Telp. , 0274.542738, 0274.649.2568 Fax. +274-543120

SURAT KETERANGAN
 No.: BF/71/ Ident/Det/XI/2015

Kepada Yth. :
Sdri/Sdr. Moch. Anugrah Firzatullah
NIM. 20120350095
Universitas Muhammadiyah Yogyakarta
Di Yogyakarta


Dengan hormat,

Bersama ini kami sampaikan hasil identifikasi/determinasi sampel yang Saudara kirimkan ke Bagian Biologi Farmasi, Fakultas Farmasi UGM, adalah :

No.Pendaftaran	Jenis	Suku
423	<i>Andrographis paniculata</i> (Burm f.) Nees	Acanthaceae

Demikian, semoga dapat digunakan sebagaimana mestinya.

Yogyakarta, 28 November 2015
 Ketua



Prof. Dr. Wahyono, S.U., Apt.
 NIP. 195007011977021001

Lampiran 2. Perhitungan % Rendemen Ekstrak

Nilai % Rendemen Ekstrak Etanol Herba Sambiloto (*Andographis paniculata* (Burm f.) Nees)

Berat simplisia : 1000 gram

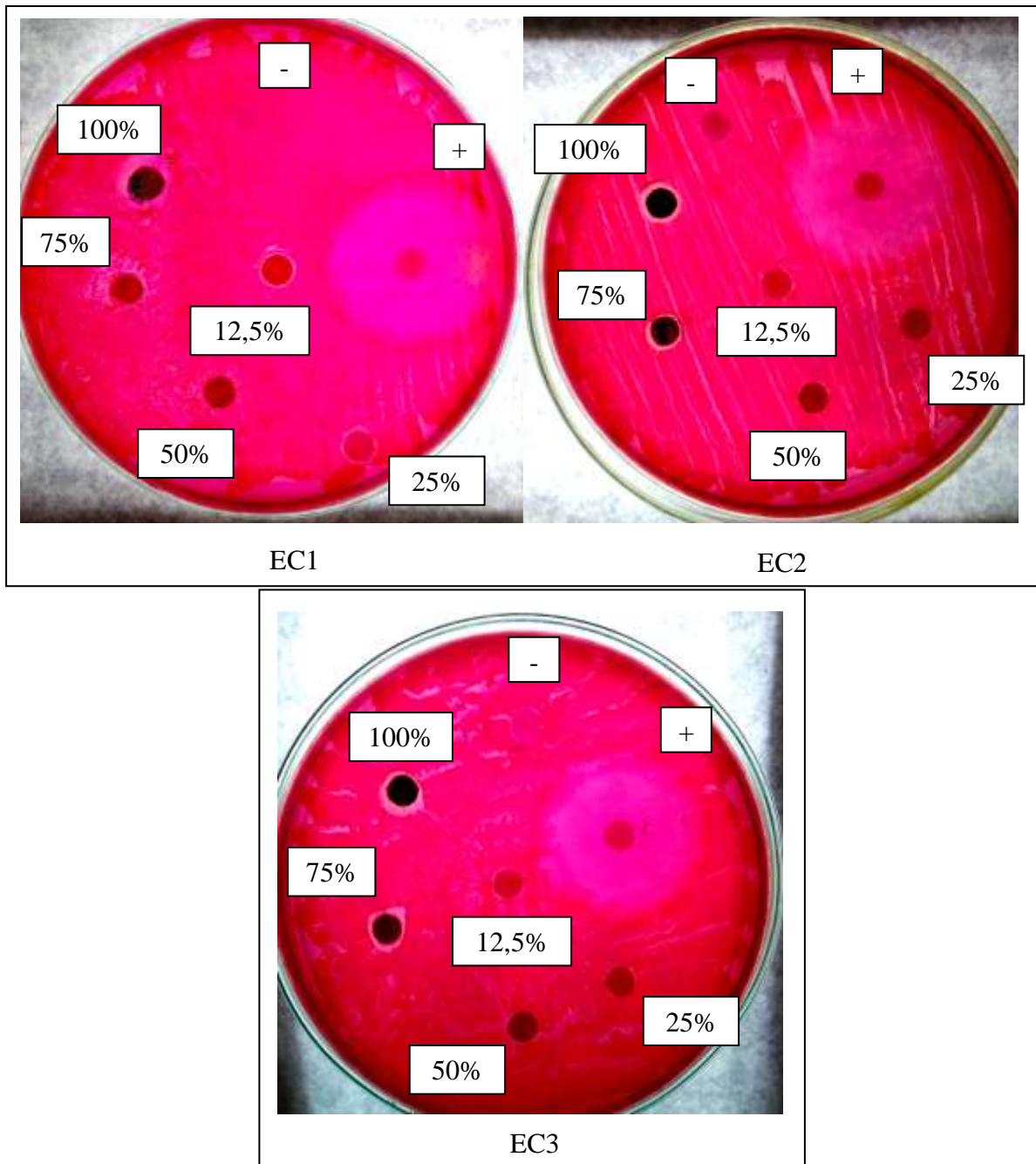
Berat ekstrak etanol : 67,5 gram

$$\text{Rendemen} = \frac{\text{Berat ekstrak}}{\text{Berat simplisia}} \times 100 \%$$

$$\text{Rendemen} = \frac{67,5 \text{ gram}}{1000 \text{ gram}} \times 100 \%$$

$$\text{Rendemen} = 6,75 \%$$

Lampiran 3. Gambar DZI ekstrak etanol herba sambiloto (*Andrographis paniculata* (Burm f.) Nees) terhadap bakteri *Escherichia coli* dan bakteri *Staphylococcus aureus*.

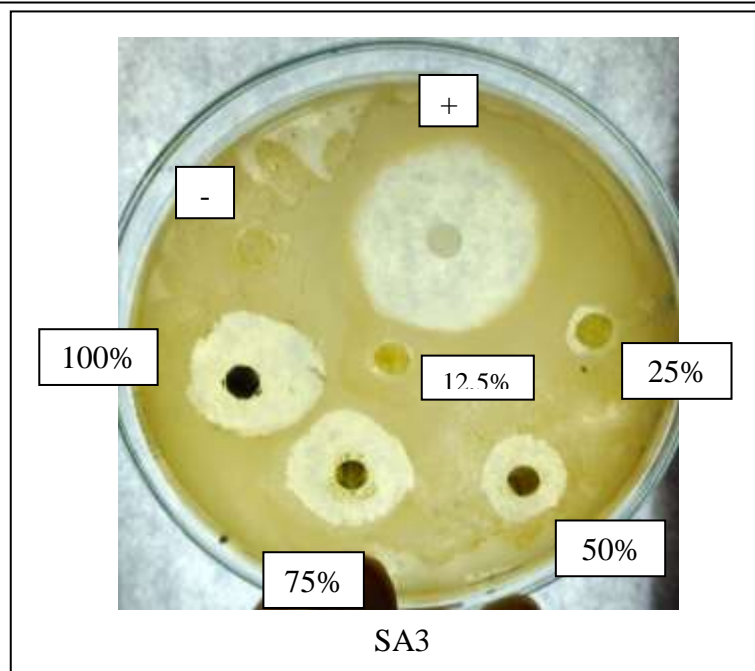
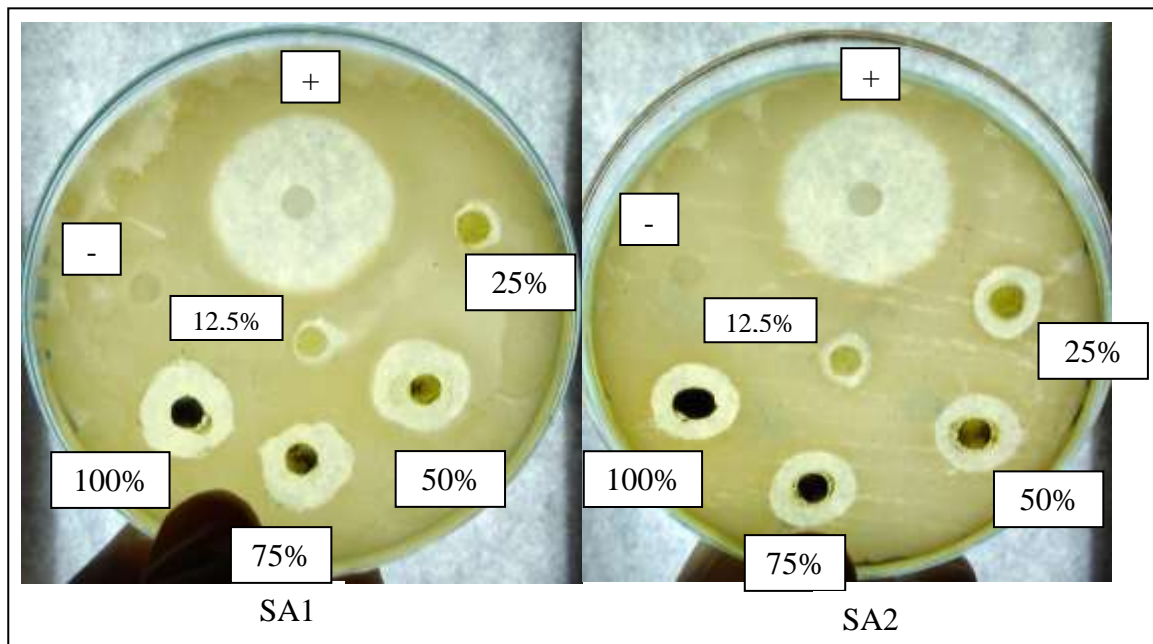


Keterangan :

EC1: DZI bakteri *Escherichia coli* replikasi 1

EC2: DZI bakteri *Escherichia coli* replikasi 2

EC3: DZI bakteri *Escherichia coli* replikasi 3



Keterangan :

SA1 : DZI bakteri *Staphylococcus aureus* replikasi 1

SA2 : DZI bakteri *Staphylococcus aureus* replikasi 2

SA3 : DZI bakteri *Staphylococcus aureus* replikasi 3

Lampiran 4. Hasil Analisis Data dengan SPSS

Analisis Deskriptif

Descriptives^{a,b,c}

Konsentrasi ekstrak				Statistic	Std. Error	
Diameter Zona Inhibisi Escherichia coli	75%	Mean		6,3333	,33333	
		95% Confidence Interval for Mean	Lower Bound	4,8991		
			Upper Bound	7,7676		
		5% Trimmed Mean		.		
		Median		6,0000		
		Variance		,333		
		Std. Deviation		,57735		
		Minimum		6,00		
		Maximum		7,00		
		Range		1,00		
		Interquartile Range		.		
		Skewness		1,732	1,225	
		Kurtosis		.	.	
	100%		Mean		7,6667	,33333
			95% Confidence Interval for Mean	Lower Bound	6,2324	
			Upper Bound	9,1009		
		5% Trimmed Mean		.		
		Median		8,0000		
		Variance		,333		
		Std. Deviation		,57735		
		Minimum		7,00		
		Maximum		8,00		
		Range		1,00		
		Interquartile Range		.		
		Skewness		-1,732	1,225	
		Kurtosis		.	.	
Kontrol +			Mean		28,7333	,43333
			95% Confidence Interval for Mean	Lower Bound	26,8689	
			Upper Bound	30,5978		
		5% Trimmed Mean		.		
		Median		28,3000		
		Variance		,563		
		Std. Deviation		,75056		
		Minimum		28,30		
		Maximum		29,60		
		Range		1,30		
		Interquartile Range		.		
		Skewness		1,732	1,225	
		Kurtosis		.	.	

Analisis Normalitas Data

Tests of Normality^{b,c,d}

	Konsentrasi ekstrak	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Diameter Zona Inhibisi	75%	,385	3	.	,750	3	,000
Escherichia coli	100%	,385	3	.	,750	3	,000
	Kontrol +	,385	3	.	,750	3	,000

Analisis *Kruskal Wallis*

Ranks

	Konsentrasi ekstrak	N	Mean Rank
Diameter Zona Inhibisi	12,5%	3	5,00
Escherichia coli	25%	3	5,00
	50%	3	5,00
	75%	3	11,17
	100%	3	13,83
	Kontrol +	3	17,00
Total		18	

Test Statistics^{a,b}

	Diameter Zona Inhibisi Escherichia coli
Chi-Square	16,725
df	5
Asymp. Sig.	,005

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi ekstrak

Ranks

	Konsentrasi ekstrak	N	Mean Rank
Diameter Zona Inhibisi	12,5%	3	5,00
Escherichia coli	25%	3	5,00
	50%	3	5,00
	75%	3	11,17
	100%	3	13,83
	Total		15

Test Statistics^{a,b}

	Diameter Zona Inhibisi Escherichia coli
Chi-Square	13,658
df	4
Asymp. Sig.	,008

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi ekstrak

Analisis Deskriptif

Descriptives				Statistic	Std. Error	
Diameter Zona Hambat Staphylococcus aureus	Konsentrasi ekstrak 12.5%	Mean		5,7667	,39299	
		95% Confidence Interval for Mean	Lower Bound	4,0757		
			Upper Bound	7,4576		
		5% Trimmed Mean				
		Median		6,0000		
		Variance		,463		
		Std. Deviation		,68069		
		Minimum		5,00		
		Maximum		6,30		
		Range		1,30		
		Interquartile Range				
		Skewness		-1,361		1,225
		Kurtosis				
	25%	Mean		9,0667	,62272	
		95% Confidence Interval for Mean	Lower Bound	6,3673		
			Upper Bound	11,7460		
		5% Trimmed Mean				
		Median		8,6000		
		Variance		1,163		
		Std. Deviation		1,07858		
		Minimum		8,30		
		Maximum		10,30		
		Range		2,00		
		Interquartile Range				
		Skewness		1,583		1,225
		Kurtosis				
	50%	Mean		14,7667	1,46780	
		95% Confidence Interval for Mean	Lower Bound	8,4512		
			Upper Bound	21,0821		
		5% Trimmed Mean				
		Median		15,3000		
		Variance		6,463		
		Std. Deviation		2,54231		
		Minimum		12,00		
		Maximum		17,00		
		Range		5,00		
		Interquartile Range				
		Skewness		-,902		1,225
		Kurtosis				
	75%	Mean		16,1667	1,94622	
		95% Confidence Interval for Mean	Lower Bound	7,7928		
			Upper Bound	24,5405		
		5% Trimmed Mean				
		Median		16,6000		
		Variance		11,383		
		Std. Deviation		3,37095		
		Minimum		12,50		
		Maximum		19,30		
		Range		6,70		
		Interquartile Range				
		Skewness		-,569		1,225
		Kurtosis				

100%	Mean		17,4000	1,81934	
	95% Confidence Interval for Mean	Lower Bound	9,5720		
		Upper Bound	25,2280		
	5% Trimmed Mean		.		
	Median		17,3000		
	Variance		9,930		
	Std. Deviation		3,15119		
	Minimum		14,30		
	Maximum		29,60		
	Range		8,30		
	Interquartile Range		.		
	Skewness		,143		1,225
	Kurtosis		.		
	Kontrol +	Mean			28,0667
95% Confidence Interval for Mean		Lower Bound	25,7719		
		Upper Bound	30,3614		
5% Trimmed Mean			.		
Median			28,6000		
Variance			,853		
Std. Deviation			,92376		
Minimum			27,90		
Maximum			29,60		
Range			1,60		
Interquartile Range			.		
Skewness			-1,732	1,225	
Kurtosis			.		

Analisis Normalitas Data

Tests of Normality

	Konsentrasi ekstrak	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Diameter Zona Hambat Staphylococcus aureus	12,5%	,301	3	.	,912	3	,424
	25%	,334	3	.	,860	3	,266
	50%	,250	3	.	,967	3	,651
	75%	,218	3	.	,988	3	,787
	100%	,179	3	.	,999	3	,948
	Kontrol +	,385	3	.	,750	3	,000

Analisis *Kruskal Wallis*

Ranks

	Konsentrasi ekstrak	N	Mean Rank
Diameter Zona Hambat	12,5%	3	2,00
Staphylococcus aureus	25%	3	5,00
	50%	3	9,67
	75%	3	11,00
	100%	3	12,33
	Kontrol +	3	17,00
	Total	18	

Test Statistics^{a,b}

	Diameter Zona Hambat Staphylococcus aureus
Chi-Square	15,074
df	5
Asymp. Sig.	,010

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi ekstrak

Ranks

	Konsentrasi ekstrak	N	Mean Rank
Diameter Zona Hambat	12,5%	3	2,00
Staphylococcus aureus	25%	3	5,00
	50%	3	9,67
	75%	3	11,00
	100%	3	12,33
	Total	15	

Test Statistics^{a,b}

	Diameter Zona Hambat Staphylococcus aureus
Chi-Square	11,333
df	4
Asymp. Sig.	,023

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi ekstrak