

LAMPIRAN

Lampiran 1. Perhitungan rendemen ekstrak etanol, fraksi n-heksan, fraksi etil asetat dan fraksi etanol-air daun anggur

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

$$= \frac{441,8857 \text{ gram}}{3000 \text{ gram}} \times 100\%$$

$$= 14,73 \%$$

$$\text{Rendemen (\%)} \text{ fraksi n-heksan} = \frac{\text{Berat Fraksi}}{\text{Berat Fkstrak}} \times 100\%$$

$$= \frac{13,11 \text{ gram}}{105 \text{ gram}} \times 100\%$$

$$= 12,48\%$$

$$\text{Rendemen (\%)} \text{ fraksi eti asetat} = \frac{\text{Berat Fraksi}}{\text{Berat Fkstrak}} \times 100\%$$

$$= \frac{21,15 \text{ gram}}{105 \text{ gram}} \times 100\%$$

$$= 20,14\%$$

$$\text{Rendemen (\%)} \text{ fraksi etanol-air} = \frac{\text{Berat Fraksi}}{\text{Berat Fkstrak}} \times 100\%$$

$$= \frac{3,09 \text{ gram}}{105 \text{ gram}} \times 100\%$$

$$= 2,94\%$$

Lampiran 2. Perhitungan seri konsentrasi ekstrak etanol, fraksi n-heksan dan fraksi etanol-air daun anggur terhadap *Staphylococcus aureus* dan *Pseudomonas aeruginosa* multiresisten

1%	= 10 mg/ 1mL etanol 96%	6%	= 60 mg/ 1mL etanol 96%
	= 10000 µg/ 1000 µL		= 60000 µg/ 1000 µL
	= 100 µg/ 10 µL		= 600 µg/ 10 µL
2%	= 20 mg/ 1mL etanol 96%	7%	= 70 mg/ 1mL etanol 96%
	= 20000 µg/ 1000 µL		= 70000 µg/ 1000 µL
	= 200 µg/ 10 µL		= 700 µg/ 10 µL
3%	= 30 mg/ 1mL etanol 96%	8%	= 80 mg/ 1mL etanol 96%
	= 30000 µg/ 1000 µL		= 80000 µg/ 1000 µL
	= 300 µg/ 10 µL		= 800 µg/ 10 µL
4%	= 40 mg/ 1mL etanol 96%	9%	= 90 mg/ 1mL etanol 96%
	= 40000 µg/ 1000 µL		= 90000 µg/ 1000 µL
	= 400 µg/ 10 µL		= 900 µg/ 10 µL
5%	= 50 mg/ 1mL etanol 96%	10%	= 100 mg/ 1mL etanol 96%
	= 50000 µg/ 1000 µL		= 100000 µg/ 1000 µL
	= 500 µg/ 10 µL		= 1000 µg/ 10 µL

Keterangan :

Tiap disk berisi 10 µL

**Lampiran 3. Perhitungan hRf uji KLT ekstrak etanol dan fraksi n-heksan
daun anggur**

Rf = jarak migrasi komponen (bercak) dibagi jarak migrasi fase gerak

$$R_f = dR / dM$$

$$hR_f = R_f \times 100$$

dR = jarak migrasi komponen (bercak)

dM = jarak migrasi fase gerak = 5 cm

Ekstrak etanol	Fraksi n-heksan
1) dR = 2,3 cm Rf = 2,3 cm / 5 cm = 0,46 hRf = 0,46 x 100 = 46	1) dR = 2 cm Rf = 2 cm / 5 cm = 0,4 hRf = 0,4 x 100 = 40
2) dR = 2,5 cm Rf = 2,5 cm / 5 cm = 0,5 hRf = 0,5 x 100 = 50	2) dR = 2,1 cm Rf = 2,1 cm / 5 cm = 0,42 hRf = 2,1 x 100 = 42
3) dR = 3,5 cm Rf = 3,5 cm / 5 cm = 0,7 hRf = 0,7 x 100 = 70	3) dR = 2,5 cm Rf = 2,5 cm / 5 cm = 0,5 hRf = 0,5 x 100 = 50
4) dR = 4,3 cm Rf = 4,3 cm / 5 cm = 0,86 hRf = 0,86 x 100 = 86	4) dR = 3,3 cm Rf = 3,3 cm / 5 cm = 0,66 hRf = 3,3 x 100 = 66
5) dR = 4,5 cm Rf = 4,5 cm / 5 cm = 0,9 hRf = 0,9 x 100 = 90	5) dR = 3,5 cm Rf = 3,5 cm / 5 cm = 0,7 hRf = 0,7 x 100 = 70
	6) dR = 3,9 cm Rf = 3,9 cm / 5 cm = 0,78 hRf = 0,78 x 100 = 78
	7) dR = 4,2 cm Rf = 4,2 cm / 5 cm = 0,84

	$hRf = 0,84 \times 100 = 84$ 8) $dR = 4,6 \text{ cm}$ $Rf = 4,6 \text{ cm} / 5 \text{ cm} = 0,92$ $hRf = 0,92 \times 100 = 92$ 9) $dR = 4,8 \text{ cm}$ $Rf = 4,8 \text{ cm} / 5 \text{ cm} = 0,96$ $hRf = 0,96 \times 100 = 96$
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Lampiran 4. Surat Identifikasi Daun Anggur

	UNIVERSITAS MUHAMMADIYAH SURAKARTA FAKULTAS FARMASI Terakreditasi "A" SK. BAN. PT. No. : 029/BAN-PT/Ak-XI/S1/XI/2008 Jl. A. Yani Tromol Pos 1 Pabelan, Kartasura Telp. (0271) 717417 - 719483 Fax. (0271) 715448 Surakarta 57102 e-mail : farmasi - ums.ac.id
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SURAT KETERANGAN IDENTIFIKASI

Sehubungan dengan keperluan identifikasi sampel tanaman, maka kami menerangkan bahwa mahasiswa berikut:

Nama : Aeinnul Yaqin
NIM : K100100188
Fakultas : Farmasi UMS
Keperluan : Skripsi

Telah menyerahkan sampel bagian daun tanaman di Laboratorium Biologi Farmasi, Fakultas Farmasi UMS pada Rabu, 10 Juli 2013 yang teridentifikasi sebagai *Vitis vinifera* L.

Surakarta, 24 Juli 2013

Mengetahui,	Penanggung Jawab Determinasi
Kepala Laboratorium Biologi Farmasi	Laboratorium Biologi Farmasi UMS
 Ratna Yuliani, M.Biotech.St	 Asri Febriana, S.Si

Lampiran 5. Surat Keterangan Bakteri *P. aeruginosa*

Selected Organism : <i>Pseudomonas aeruginosa</i>					
Source: Pus			Collected: Aug 24, 2013		
Comments:					
Identification Information		Analysis Time: 5.25 hours		Status: Final	
Selected Organism		97% Probability		<i>Pseudomonas aeruginosa</i>	
		Bionumber:		0043051043500000	
Organism Quantity:					
ID Analysis Messages					

Susceptibility Information		Analysis Time: 11.50 hours		Status: Final	
Antimicrobial	MIC	Interpretation	Antimicrobial	MIC	Interpretation
ESBL			Aztreonam	32	R
Ampicillin	>= 32	R	Meropenem	1	S
Ampicillin/Sulbactam	>= 32	R	Amikacin	32	I
Cefazolin	>= 64	R	Gentamicin	>= 16	R
Cefmetazole	>= 64	R	Ciprofloxacin	>= 4	R
Ceftazidime	>= 64	R	Levofloxacin	>= 8	R
Ceftriaxone	>= 64	R	Tigecycline	>= 8	R
Cefepime	>= 64	R	Trimethoprim/Sulfamethoxazole	>= 320	R

+ = Deduced drug * = AES modified ** = User modified

AES Findings	
Confidence:	Consistent

AB_s
 1. ampi
 2. TME
 3. Genta.
 4.

Lampiran 6. Surat Keterangan Bakteri *S.aureus*

Selected Organism : *Staphylococcus aureus*

Source: Pus

Collected: Aug 23, 2013

Comments:

Identification Information	Analysis Time: 3.75 hours	Status: Final
Selected Organism	99% Probability	<i>Staphylococcus aureus</i>
Organism Quantity:	Bionumber:	050402060763231
ID Analysis Messages		

Susceptibility Information		Analysis Time: 8.25 hours		Status: Final	
Antimicrobial	MIC	Interpretation	Antimicrobial	MIC	Interpretation
Cefoxitin Screen	NEG	-	+Meropenem		S
Benzyloxyphenylpenicillin	>= 0.5	R	Gentamicin	<= 0.5	S
+Amoxicillin		R	Ciprofloxacin	<= 0.5	S
+Amoxicillin/Clavulanic Acid		S	Levofloxacin	0.25	S
+Ampicillin/Sulbactam		S	Moxifloxacin	<= 0.25	S
+Piperacillin/Tazobactam		S	Inducible Clindamycin Resistance	NEG	-
Qxacillin	0.5	S	Erythromycin	>= 8	R
+Cefadroxil		S	Clindamycin	>= 8	R
+Cefuroxime		S	Quinupristin/Dalfopristin	<= 0.25	S
+Cefotaxime		S	Linezolid	2	S
+Ceftazidime		S	Vancomycin	1	S
+Ceftizoxime		S	Tetracycline	<= 1	S
+Ceftriaxone		S	Tigecycline	<= 0.12	S
+Cefepime		S	Nitrofurantoin	<= 16	S
+Doripenem		S	Rifampicin	<= 0.5	S
+Ertapenem		S	Trimethoprim/Sulfamethoxazole	<= 10	S
+Imipenem		S			

+ = Deduced drug * = AES modified ** = User modified

AES Findings	
Confidence:	Consistent

Lampiran 7. Komposisi media

1. BHI (*Brain Heart Infusion*)

<i>Calf brain infusion</i> padat	12,5
<i>Beef herat infusion</i> padat	5,0
<i>Protease pepione</i>	10,0
<i>Glucose</i>	2,0
<i>Di-sodium phosphate</i>	2,5
Akuades	1 liter

2. MH (*Mueller Hinton*)

<i>Beef dehydrated infusion</i>	300,0
<i>Casein hydrolysate</i>	17,5
Amilum	1,5
Agar-agar	17,0
Akuades	1 liter

3. KIA (*Kligler Iron Agar*)

Tiap 1 liter mengandung :

<i>Peptone</i>	23
<i>Yeast extract</i>	3
<i>Glucose</i>	1
<i>Lactose</i>	10
Besi (II) sulfat	0,2
Sodium klorida	5
Sodium thiosulfat	0,3
<i>Phenol red</i>	0,05
Agar	7

Lampiran 7. Lanjutan

4. LIA (*Lysine Iron Agar*)

Tiap 1 liter mengandung :

<i>Enzymatic Digest of Gelatin</i>	5
<i>Yeast Extract</i>	3
<i>Dextrose</i>	1
L-Lysine	10
<i>Ferric Ammonium Citrate</i>	0,5
Sodium Thiosulfat	0,04
<i>Bromcresol Purple</i>	0,02
Agar	13,5

5. MIO (*Motility Indole Ornithine*)

Tiap 1 liter mengandung :

<i>Gelatin Peptone</i>	10,00
<i>Dextrose</i>	1,00
<i>Casein Peptone</i>	10,00
<i>Bromocresol Purple</i>	0,02
<i>L-Ornithine</i>	5,00
Agar	2,00
<i>Yeast Extract</i>	3,00

6. MSA (*Manitol Salt Agar*)

<i>Beef extract</i>	1,00
<i>Peptone</i>	10,00
NaCl	75,00
Manitol	10,00
Phenol red	0,025
Agar	15,00
Akuades	1liter

Lampiran 8. Komposisi cat Gram**Cat Gram A**

Kristal violet	2
Etil alkohol 95%	20 mL
Ammonium oksalat	0,8
Akuades	80 mL

Cat Gram B

Yodium	1
Kalium yodida	2
Akuades	300 mL

Cat Gram C

Aseton	50 mL
Etil alkohol 95%	50 mL

Cat Gram D

Safranin	0,25
Etil alkohol 95%	10 mL
Akuades	90 mL