

LAMPIRAN

Lampiran 1. Surat Izin Penelitian



POLITEKNIK 'AISYIYAH PONTIANAK
PROGRAM STUDI D.IV TEKNOLOGI LABORATORIUM MEDIS
Jl. Azmpara No 9 Telp (0561) 6655112, 6655114 - Fax. (0561) 6655115
Website: <http://campus.polita.ac.id> Email: aisyiyah.prita@polita.ac.id

SURAT IZIN PENELITIAN
Nomor : 61/II.3.AU/TLM/TV/2026

Yth.
Kepala Laboratorium Kesehatan Kota Pontianak di
-
Pontianak

Bismillahirrahmanirrahim. Assalamu'alaikum
Wr. Wb.

Sehubungan dengan pelaksanaan skripsi mahasiswa Program Studi D.IV Teknologi Laboratorium Medis Politeknik 'Aisyiyah Pontianak, maka dengan ini kami mohon kesediaan Bapak/Ibu kiranya memberikan izin kepada mahasiswa/I kami untuk melakukan penelitian bidang mikrobiologi dilingkungan tempat kerja yang Bapak/Ibu pimpin. Adapun mahasiswa yang ingin melakukan yaitu :

NO	NIM	NAMA MAHASISWA
1	22031121	Egy Egiersa
2	22031142	Siti Patimah
3	22031119	Dimas priyono
4	22031116	Agus Susanto
5	22031128	Karina Azzahra

Demikianlah surat ini kami sampaikan, atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Nasrun Minallahi Wafathun Qarieb
Wassalamu'alaikum Warrahmatullahi Wabarokaatuh

Pontianak, 23 April 2026

Ketua Program Studi
D-IV Teknologi Laboratorium Medik

Ariffaldi N. S.Tr.Kes., M.Kes
NIDN. 11-1312-9701

PP. 6171052A2000001

Lampiran 2. Surat Hasil Determinasi



KEMENTERIAN PENDIDIKAN TINGGI,
SAINS, DAN TEKNOLOGI
UNIVERSITAS TANJUNGPURA
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
LABORATORIUM BIOLOGI
Jalan Prof. Dr. H. Hadari Nawawi, Pontianak 78124
Telp./Fax.: (0561) 577963 e-mail: info@fmipa.untan.ac.id

Pontianak, 11 Mei 2026

Nomor : 056/SHA/LAB-BIO/FMIPA/UNTAN/2026
Lampiran : 1
Perihal : Hasil Identifikasi Tumbuhan

Kepada Yth:
Dimas Priyono
Di
Tempat

00001

Dengan hormat,

Bersama ini kami sampaikan data hasil identifikasi tumbuhan, yang diterima pada:

Hari/ Tanggal : 5 Mei 2026
Jumlah contoh : 1 sampel
Jenis contoh : Tumbuhan
Lokasi : Sungai Rengas
Distribusi sampel : -

Demikian kami sampaikan, atas perhatiannya diucapkan terima kasih.

Kepala Laboratorium Biologi
Fakultas MIPA Universitas Tanjungpura

Mukarlina, S.Si., M.Si.
NIP. 196804062000032001

Tembusan:
Yth. Dekan FMIPA UNTAN sebagai laporan

Lampiran 3. Surat Hasil Fitokimia

	LABORATORIUM JURUSAN TEKNOLOGI PERTANIAN POLITEKNIK NEGERI PONTIANAK Jl. Jenderal Ahmad Yani – Pontianak 78124, Kalimantan Barat Telp : (0561) 736180, Faksimile : (0561) 740143, kotak Pos1286 Laman : www.polnep.ac.id	
REKAMAN	ID. Dok.	: LPT/RK-7.8.2.1
	Revisi	: 00
	Tanggal	: 02/01/2020
Laporan Hasil Uji	Halaman	: 1 dari 1

LAPORAN HASIL UJI						
Nomor Contoh Uji		: P. 018/TP/2026				
Tanggal Penerimaan		: 22-04-2026				
Tanggal Pengerjaan		: 23-04-2026				
Tanggal Selesai		: 24-04-2026				
Nama Pengguna Jasa		: Egy Egiersa				
Jenis Contoh Uji		: 1. Ekstrak Buah Senggani				
Petugas Pengambil contoh		: -				
No	Nomor Contoh	Parameter	Hasil Analisis	Baku Mutu	Satuan	Metode Analisis
1.	P.018/TP/2026	a. Fitokimia				
		• Alkaloid	Positif		+	Dragondroff
		• Flavonoid	Positif		+	Uji Shinoda
		• Saponin	Positif		+	Aquades Panas
		• Steroid	Positif		+	Salkowski
		• Tanin	Positif		+	Fect3
Catatan : Dokumentasi pengujian						
Mengetahui, Ketua Jurusan Teknologi Pertanian  Dody Radiansah		Memeriksa, Kepala Lab. Kimia/Biologi/Sensoris  Abdi Redha		Pontianak, 28 April 2026 Pengolah Data  Mawardi		

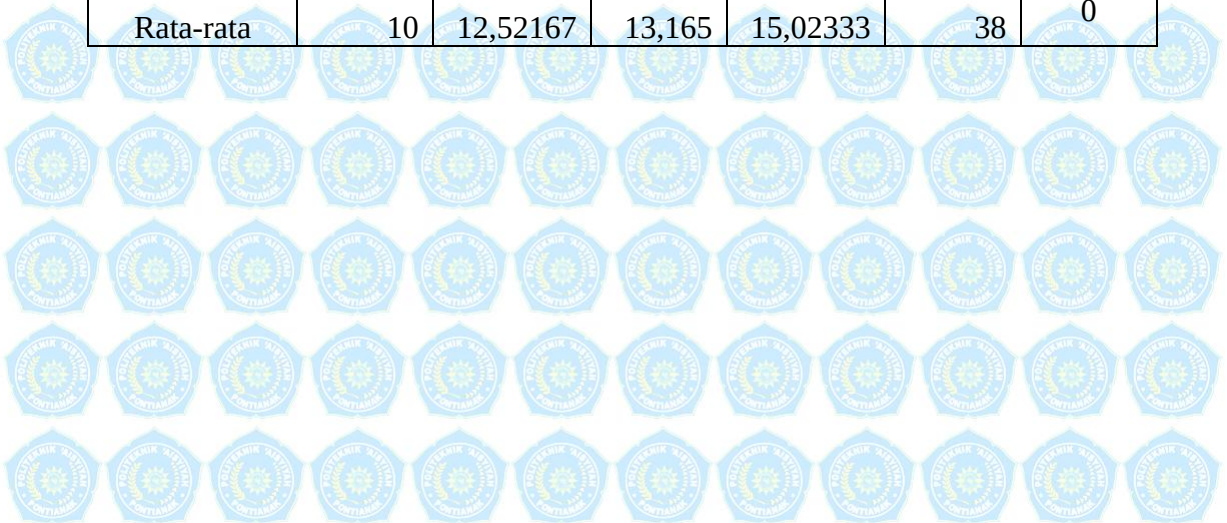
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PC

AK

Lampiran 5. Hasil Penelitian

Pengulangan	20%	40%	60%	80%	K+	K-
1	10	12,19	13,44	15,3	37	0
2	10,15	13	13	13	38	0
3	10,1	12,66	13,26	15	39	0
4	10,25	13,2	13,22	15,51	38,35	0
5	10	12,19	13	16	37,89	0
6	10,24	12	12,7	15,75	36,35	0
Rata-rata	10	12,52167	13,165	15,02333	38	0



POLITEKNIK 'AISYIYAH PONTIANAK

Lampiran 6. Sertifikat Bakteri

thermo scientific

Thermo Fisher Scientific
Microbiology
12076 Santa Fe Trail Drive
12230 Santa Fe Trail Drive
Lenexa, KS 66215
800.255.6730
800.447.5761 fax
www.thermofisher.com

Certificate of Analysis

Product Name: *P. aeruginosa* ATCC 27853 PK/5
Lot Number: 571191

Product Number: R4607060
Expiration Date: 2026-04-25
(YYYY-MM-DD)

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820. Representative samples were tested per Remel Inc., a part of Thermo Fisher Scientific Quality Control specifications and were found to meet performance criteria for this product.

Purity:

Standardized aliquots of the rehydrated product are inoculated onto nonselective media and examined for pure growth following the appropriate incubation. Selective and Differential media are also tested where applicable.

Viability And Quantification:

Each organism is recovered from the preserved state within the required time frame and at an acceptable level. Passage number is stated as the current preserved state.

Macroscopic And Microscopic Morphology:

Colony morphology is consistent with documented referenced description.
Traditional staining is performed.

Characterization:

Organism exhibits characteristic biochemical, enzymatic, genotypical and/or biochemical reactions. Automated and/or conventional testing was performed and results were within established limits. Antimicrobial testing performed where applicable. Results within expected ranges.

CFU/loop: >10(4)

Passage: 3

Gram Reaction: Gram Negative Rod

Identification Profile: MicroSEQ® or Vitek® 2

Appearance: Preserved Gel Matrix suspended in inoculating loop

pH: N/A

Morphology: Two colony types may be observed.

Lampiran 7. Sertifikat Keaslian Media MHA

ThermoFisher
SCIENTIFIC



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CERTIFICATE OF ANALYSIS

PRODUCT CM0337B
MUELLER HINTON AGAR 500g

LOT NUMBER 6257624

EXPIRY DATE 2030.04.10

DATE OF MANUFACTURE 2025.04.11

Delivery/Customer information

Date Printed

2026.02.05

Delivery No.

Customer

Customer Order Number

Physical Characteristics	Results	Specification
Appearance	Straw powder	Straw powder
Colour on reconstitution	Straw 2-3	Straw 2-3
pH (25°C)	7.3	7.2 - 7.4
Clarity	Clear	Clear

Microbiological Performance

Antibiotic susceptibility tests are performed in accordance with, and meet the acceptance limits of, the current ISO/TS 16782. Performance is assessed using EUCAST methodology.

Staphylococcus aureus ATCC®25923 WDCM00034

Incubation at 35 ± 1°C for 16-20 hours in ambient air

	Zone Size (mm)	Limits (mm)
Erythromycin E15	27	22 - 30
Tetracycline TE30	27	24 - 30
Ciprofloxacin CIP5	25	22 - 30
Amoxicillin-clavulanate AMC30	33	28 - 36
Ampicillin-sulbactam SAM20	33	29 - 37
Linezolid LZD30	28	25 - 32
Cefoxitin FOX30	26	23 - 29
Gentamicin CN10	25	19 - 27
Penicillin P10	34	26 - 37

Staphylococcus aureus ATCC®29213 WDCM00131

Incubation at 35 ± 1°C for 16-20 hours in ambient air

Penicillin P1	16	12 - 18
Cefoxitin FOX30	29	24 - 30
Ciprofloxacin CIP5	22	21 - 27
Erythromycin E15	27	23 - 29
Gentamicin CN10	22	19 - 25
Linezolid LZD10	24	21 - 27
Tetracycline TE30	24	23 - 31

OXOID LIMITED
Wade Road, Basingstoke, Hampshire RG24 8PW, England
www.ThermoFisher.com

Lampiran 8. Sertifikat Keaslian Media NA

ThermoFisher
SCIENTIFIC



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CERTIFICATE OF ANALYSIS

PRODUCT CM0003B
NUTRIENT AGAR 500g

LOT NUMBER 6324158

EXPIRY DATE 2030.10.31

DATE OF MANUFACTURE 2025.10.06

Delivery/Customer information

Date Printed
2025.10.20
Delivery No.

Customer
Customer Order Number

00001

Physical Characteristics	Results	Specification
Appearance	Straw powder	Straw powder
Colour on reconstitution	Straw 2	Straw 1-2
pH (25°C)	7.4	7.2 - 7.6
Clarity	Clear	Clear
Blood compatibility with horse blood	Satisfactory	Satisfactory
Blood compatibility with sheep blood	Satisfactory	Satisfactory
Thermophiles	Absent	Absent

Microbiological Performance	Control cfu	Test cfu	Recovery Test %	Description
Aerobic incubation at 37°C for 24 hours				
<i>Staphylococcus aureus</i> ATCC®25923	71	55	77	White/straw cols
<i>Pseudomonas aeruginosa</i> ATCC®27853	62	58	94	Straw cols
Enriched with 7% v/v horse blood				
Aerobic incubation at 37°C for 24 hours				
<i>Streptococcus pyogenes</i> ATCC®19615	16	15	94	Colourless cols, β haemolysis
<i>Streptococcus pneumoniae</i> ATCC®6303	43	32	74	Grey/green cols, alpha haemolysis
<i>Streptococcus pneumoniae</i> ATCC®6305	28	31	111	Grey/green cols, alpha haemolysis
Enriched with 7% v/v horse blood				
Incubation in 5% CO₂ at 37°C for 24 hours				
<i>Haemophilus influenzae</i> ATCC®19418	49	47	96	Colourless cols

Testing has been performed in accordance with ISO11133:2014

Aerobic incubation at 30 ± 2°C for 24 ± 2 hours

<i>Y. enterocolitica</i> ATCC®23715 WDCM00160	93	99	106	Straw cols
<i>Y. enterocolitica</i> ATCC®9610 WDCM00038	104	89	86	Straw cols

Aerobic incubation at 37 ± 2°C for 24 ± 2 hours

<i>E. coli</i> ATCC®25922 WDCM00013	54	63	117	Straw cols
<i>E. coli</i> ATCC®8739 WDCM00012	64	64	101	Straw cols
<i>S. typhimurium</i> ATCC®14028 WDCM 00031	102	102	100	Straw cols
<i>S. enteritidis</i> ATCC®13076 WDCM00030	65	67	104	Straw cols

Control Medium: Nutrient Agar

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Lampiran 9. Dokumentasi



Simplisia senggani



Perendaman simplisia



Penimbangan NA



Pengenceran dengan Aquadest



Pemanasan NA



NA di media miring



Peremajaan bakteri



Inkubasi bakteri pada media NA



Hasil peremajaan bakteri



Pembuatan media MHA



Pemanasan media MHA



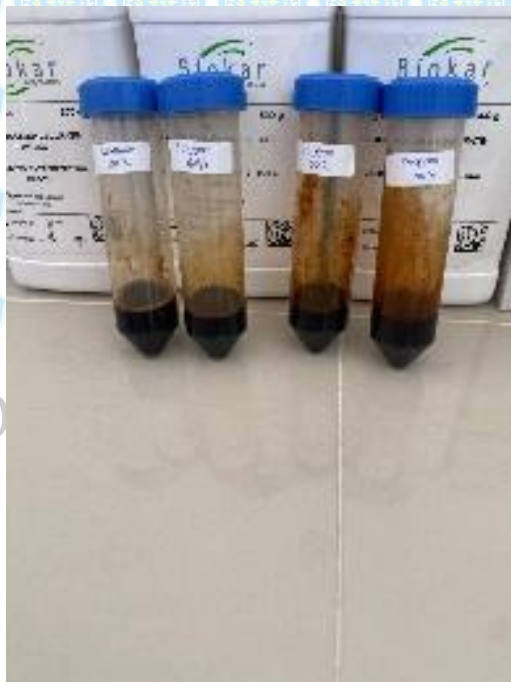
Sterilisasi media MHA



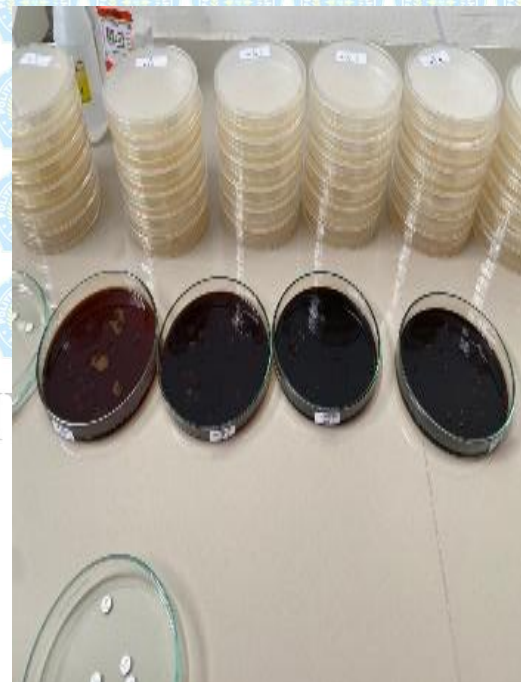
Penggoresan bakteri pada MHA



Penimbangan ekstrak



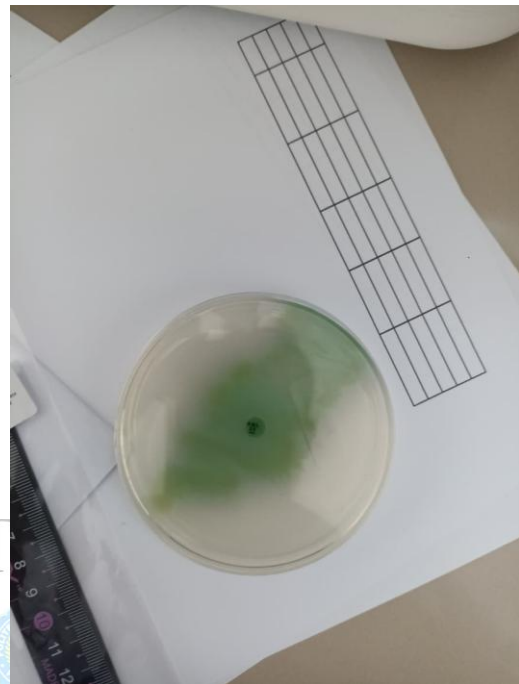
Konsentrasi ekstrak siap pakai



Perendaman cakram



Peletakan cakram di media MHA



Kontrol Negatif



Konsentrasi 20%



Konsentrasi 40%



PC