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## LAMPIRAN

### Lampiran 1 Surat Izin Penelitian



**Kemenkes**  
Poltekkes Medan

**Kementerian Kesehatan**  
**Direktorat Jenderal**  
**Sumber Daya Manusia Kesehatan**  
Politeknik Kesehatan Medan  
Jalan Jamin Ginting KM. 13.5  
Medan, Sumatera Utara 20136  
(061) 8368633  
<https://poltekkes-medan.ac.id>

Nomor : KH.02.04/F.XXII.12/ 42 /2026  
Perihal : Izin Penelitian

19 Januari 2026

Kepada Yth :  
Bapak / Ibu Pimpinan  
HRD LABORATORIUM MEDIS BUNDA THAMRIN  
Di –  
Tempat

Dengan ini kami sampaikan, dalam rangka penulisan Karya Tulis Ilmiah untuk memenuhi persyaratan Ujian Akhir Program (UAP) Jurusan Teknologi Laboratorium Medis diperlukan penelitian.

Dalam hal ini kami mohon, kiranya Bapak / Ibu bersedia memberi kemudahan terhadap mahasiswa/i kami.

| No | Nama                       | NIM          | Judul Penelitian                                                                                                                              | Pembimbing KTI                              |
|----|----------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1  | Alya putri                 | p07534023096 | identifikasi bakteri penyebab infeksi luka pada pasien pasca operasi bedah di rs bunda thamrin kota medan                                     | Suryani M.F<br>Situmeang S.pd,<br>M.kes     |
| 2  | Amirah Masito              | p07534023097 | IDENTIFIKASI JAMUR Candida albicans PADA URINE PENDERITA DIABETES MELLITUS DI RSU BUNDA THAMRIN                                               | Suryani M.F<br>Situmeang S.pd,<br>M.kes     |
| 3  | Rehana Rahman Siagian      | P07534023041 | IDENTIFIKASI BAKTERI KLEBSIELLA PNEUMONIAE PADA PENDERITA PNEUMONIA DI RUMAH SAKIT BUNDA THAMRIN KOTA MEDAN                                   | Suryani M.F<br>Situmeang S.pd,<br>M.kes     |
| 4  | Artika Julia Putri Siregar | p07534023198 | POLA RESISTENSI ANTIBIOTIK TERHADAP BAKTERI Escherichia Coli DARI SPESIMEN URINE PENYEBAB ISK DI LABORATORIUM KLINIK BUNDA THAMRIN MEDAN      | Gabriella septiani<br>nasution SKM,M.si     |
| 5  | Aulia Alvinah Daulay       | P07534023055 | POLA RESISTENSI ANTIBIOTIK TERHADAP BAKTERI Klebsiella pneumoniae DARI SPESIMEN URINE PENYEBAB ISK DI LABORATORIUM KLINIK BUNDA THAMRIN MEDAN | Gabriella septiani<br>nasution SKM,<br>M.si |
| 6  | Nurul Azzahrah Lubis       | P07534023163 | IDENTIFIKASI Candida albicans PADA URINE PENDERITA INFEKSI SALURAN KEMIH DI RUMAH SAKIT BUNDA THAMRIN MEDAN.                                  | Gabriella septiani<br>nasution SKM,M.si     |
| 7  | Ronauli Rosanti Siahaan    | P07534023180 | Gambaran demam berdarah dengue pada rumah sakit umum bunda thamrin Medan                                                                      | Ice Ratnalela<br>Siregar,S.Si,M.ke<br>s     |

Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan oleh Balai Besar Sertifikasi Elektronik (BSrE), Badan Siber dan Sandi Negara

## Lampiran 2 Surat Persetujuan Penelitian

|                                                                                   |                                                                                                                                                                                               |                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>LABORATORIUM MEDIS BUNDA THAMRIN</b><br>Jln. Sei Batang Hari No. 44, Medan 20121<br>Telp. 061 - 4142819 ( Hunting ) Hp. 0853 6125 9784, 0853 6125 9781<br>Email : cs@labbundathamrin.co.id | <br><small>Komite Akreditasi Nasional<br/>Laboratorium Medik<br/>LM-088-00N<br/>Terakreditasi SNI ISO 15189 : 2013</small> |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Medan, 01 April 2026

Nomor : 017/SU/DIR - LMBT/0426  
 Hal : Balasan Surat Permohonan Izin Penelitian  
 Lampiran : -

Kepada Yth,  
 Ketua Jurusan Teknologi Laboratorium Medis  
 Program Studi Teknologi Laboratorium Medis  
 Poltekkes Kemenkes Medan  
 di  
 Tempat

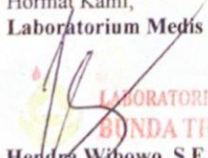
Dengan Hormat,

Menindaklanjuti Surat Permohonan Izin Penelitian Nomor : KH.02.04/F.XXII.12/42/2026  
 perihal permohonan izin penelitian kepada mahasiswa/i atas nama :

| No | Nama                  | NIM          |
|----|-----------------------|--------------|
| 1  | Rehana Rahman Siagian | P07534023041 |

Bersama ini kami sampaikan bahwa mahasiswa/i tersebut di atas dapat kami terima untuk melaksanakan Penelitian di Laboratorium Medis Bunda Thamrin dalam memenuhi kewajiban/ menyelesaikan studi pada Poltekkes Kemenkes Medan, yang akan melakukan penelitian dengan judul : **Identifikasi Bakteri Klebsiella Pneumoniae Pada Penderita Pneumonia di Rumah Sakit Bunda Thamrin Kota Medan**. Demikian disampaikan, atas perhatiannya diucapkan terima kasih.

Hormat Kami,  
**Laboratorium Medis Bunda Thamrin**

  
**Hendra Wibowo, S.E**  
 Direktur

### Lampiran 3 Ethical Clearance



**Kementerian Kesehatan**  
**Poltekkes Medan**  
**Komisi Etik Penelitian Kesehatan**  
 Jalan Jamin Ginting KM. 13,5  
 Medan, Sumatera Utara 20137  
 (061) 8368633  
<https://poltekkes-medan.ac.id>

**KETERANGAN LAYAK ETIK**  
*DESCRIPTION OF ETHICAL EXEMPTION*  
 "ETHICAL EXEMPTION"

No.01.26.2755/KEPK/POLTEKKES KEMENKES MEDAN 2026

Protokol penelitian versi 1 yang diusulkan oleh :  
*The research protocol proposed by*

**Peneliti utama** : Rehana Rahman Siagian  
*Principal In Investigator*

**Nama Institusi** : Kemenkes politeknik kesehatan medan  
*Name of the Institution*

Dengan judul:  
*Title*

**"identifikasi bakteri klebsiella pneumoniae pada penderita pneumonia di rumah sakit bunda thamrin kota medan"**

*"Identification of klebsiella pneumoniae bacteria in pneumonia patients at ibu thamrin hospital medan city"*

Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan/Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

*Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards, 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standard.*

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 21 Mei 2026 sampai dengan tanggal 21 Mei 2027.

*This declaration of ethics applies during the period May 21, 2026 until May 21, 2027.*



May 21, 2026  
 Chairperson,



Dr. Lestari Rahmah, MKT

## Lampiran 4 Hasil Pemeriksaan Alat Vitek

Card Type: GN Bar Code: 241311203008444 Testing Instrument: 80001C 2A0179 (23534)  
 Card Type: AST-N806 Bar Code: 093329310402116 Testing Instrument: 80001C 2A0179 (23534)  
 Setup: Technology: Laboratory Administrator (abulmin)

Bioreactor: 6607734653164010  
 Organism Quantity: Selected Organism: *Klebsiella pneumoniae* sp. *pneumoniae*

Comments:

McFarland:

|                                           |                                                 |                                                                                            |                                |
|-------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------|
| Identification Information                | Card: GN                                        | Lot Number: 241311203                                                                      | Expires: Jun 4, 2026 12:00 ICT |
| Status: Final                             | Analysis Time: 3.85 hours                       | Completed: Jan 29, 2026 14:10 ICT                                                          |                                |
| Organism Origin                           | VITEK® 2                                        |                                                                                            |                                |
| Selected Organism                         | 99% Probability<br>Bioreactor: 6607734653164010 | <i>Klebsiella pneumoniae</i> sp. <i>pneumoniae</i><br>Confidence: Excellent identification |                                |
| Analysis Organisms and Tests to Separate: |                                                 |                                                                                            |                                |
| Analysis Messages:                        |                                                 |                                                                                            |                                |
| Contradicting Typical Biopattern(s)       |                                                 |                                                                                            |                                |

McFarland:

|                            |                           |                                   |                                |
|----------------------------|---------------------------|-----------------------------------|--------------------------------|
| Susceptibility Information | Card: AST-N806            | Lot Number: 0933293104            | Expires: Dec 2, 2026 12:00 ICT |
| Status: Final              | Analysis Time: 8.73 hours | Completed: Jan 29, 2026 19:02 ICT |                                |

| Antimicrobial           | MIC    | Interpretation | Antimicrobial                 | MIC     | Interpretation |
|-------------------------|--------|----------------|-------------------------------|---------|----------------|
| ESBL                    | POS    | R              | Cefepime                      | >= 12   | R              |
| Ampicillin              | >= 32  | R              | Ertapenem                     | <= 0.25 | S              |
| Ampicillin Sulbactam    | >= 32  | R              | Meropenem                     | <= 0.25 | S              |
| Piperacillin Tazobactam | >= 128 | R              | Gentamicin                    | >= 16   | R              |
| Cefazolin               | >= 32  | R              | Ciprofloxacin                 | >= 4    | R              |
| Urine                   | >= 32  | R              | Levofloxacin                  | >= 8    | R              |
| Other                   | >= 32  | R              | Nitrofurantoin                | 256     | R              |
| Ceftazidime             | >= 32  | R              | Trimethoprim Sulfamethoxazole | >= 320  | R              |
| Ceftriaxone             | >= 64  | R              |                               |         |                |

\*\* AES™ modified \*\* = User modified \*\* = Deduced drug \*\* = Disabled BIOART Limitation Rule (i) = Susceptibility testing not recommended; species is a poor target for therapy. (E) = Insufficient Evidence that species is good target for therapy; MIC may be reported without interpretation. (SD) = Susceptible-dose dependent (SD) implies that susceptibility of an isolate is dependent on the dosing regimen used. For further information, please refer to CLSI Performance Standards, or Product Information. -- = Missing required test. @ = Terminated antibiotic in family. | = MIC Suppressed On Chart Report

AES™ Findings: Last Modified: Nov 12, 2025 10:51 ICT Parameter Set: Global CLSI 2025-based + Natural Resistance

Confidence Level: Consistent

Installed VITEK® 2 Systems Version: 10.0.1  
 MIC Interpretation Guideline: Global CLSI 2025-based  
 AES™ Parameter Set Name: Global CLSI 2025-based-Natural  
 Resistance

Therapeutic Interpretation Guideline: NATURAL RESISTANCE  
 2025  
 AES™ Parameter Last Modified: Nov 12, 2025 10:51 ICT  
 Page 1 of 2

## Hasil pada bakteri *Klebsiella pneumoniae*

Card Type: GN Bar Code: 241311203008444 Testing Instrument: 80001C 2A0179 (23534)  
 Card Type: AST-N806 Bar Code: 093329310402116 Testing Instrument: 80001C 2A0179 (23534)  
 Setup: Technology: Laboratory Administrator (abulmin)

Bioreactor: 0043051103500252  
 Organism Quantity: Selected Organism: *Pseudomonas aeruginosa*

Comments:

McFarland:

|                                           |                                                 |                                                                       |                                |
|-------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|--------------------------------|
| Identification Information                | Card: GN                                        | Lot Number: 241311203                                                 | Expires: Jun 4, 2026 12:00 ICT |
| Status: Final                             | Analysis Time: 5.95 hours                       | Completed: Jan 28, 2026 18:10 ICT                                     |                                |
| Organism Origin                           | VITEK® 2                                        |                                                                       |                                |
| Selected Organism                         | 99% Probability<br>Bioreactor: 0043051103500252 | <i>Pseudomonas aeruginosa</i><br>Confidence: Excellent identification |                                |
| Analysis Organisms and Tests to Separate: |                                                 |                                                                       |                                |
| Analysis Messages:                        |                                                 |                                                                       |                                |
| Contradicting Typical Biopattern(s)       |                                                 |                                                                       |                                |

McFarland:

|                            |                            |                                   |                                |
|----------------------------|----------------------------|-----------------------------------|--------------------------------|
| Susceptibility Information | Card: AST-N806             | Lot Number: 0933293104            | Expires: Dec 2, 2026 12:00 ICT |
| Status: Final              | Analysis Time: 14.97 hours | Completed: Jan 29, 2026 03:11 ICT |                                |

| Antimicrobial           | MIC  | Interpretation | Antimicrobial                 | MIC     | Interpretation |
|-------------------------|------|----------------|-------------------------------|---------|----------------|
| ESBL                    |      |                | Ertapenem                     |         |                |
| Ampicillin              |      |                | Meropenem                     | <= 0.25 | S              |
| Ampicillin Sulbactam    |      |                | Gentamicin                    |         |                |
| Piperacillin Tazobactam | <= 4 | S              | Ciprofloxacin                 | 0.12    | S              |
| Cefazolin               |      |                | Levofloxacin                  | 0.5     | S              |
| Ceftazidime             | 2    | S              | Nitrofurantoin                |         |                |
| Ceftriaxone             |      |                | Trimethoprim Sulfamethoxazole |         |                |
| Cefepime                | 2    | S              |                               |         |                |

\*\* AES™ modified \*\* = User modified \*\* = Deduced drug \*\* = Disabled BIOART Limitation Rule (i) = Susceptibility testing not recommended; species is a poor target for therapy. (E) = Insufficient Evidence that species is good target for therapy; MIC may be reported without interpretation. (SD) = Susceptible-dose dependent (SD) implies that susceptibility of an isolate is dependent on the dosing regimen used. For further information, please refer to CLSI Performance Standards, or Product Information. -- = Missing required test. @ = Terminated antibiotic in family. | = MIC Suppressed On Chart Report

AES™ Findings: Last Modified: Nov 12, 2025 10:51 ICT Parameter Set: Global CLSI 2025-based + Natural Resistance

Confidence Level: Consistent

Installed VITEK® 2 Systems Version: 10.0.1  
 MIC Interpretation Guideline: Global CLSI 2025-based  
 AES™ Parameter Set Name: Global CLSI 2025-based-Natural  
 Resistance

Therapeutic Interpretation Guideline: NATURAL RESISTANCE  
 2025  
 AES™ Parameter Last Modified: Nov 12, 2025 10:51 ICT  
 Page 1 of 2

## Hasil pada bakteri *Pseudomonas aeruginosa*

### Lampiran 5 Alat dan Bahan



Tabung reaksi



Bunsen



Ose cincin



Timbangan  
Mc Farland



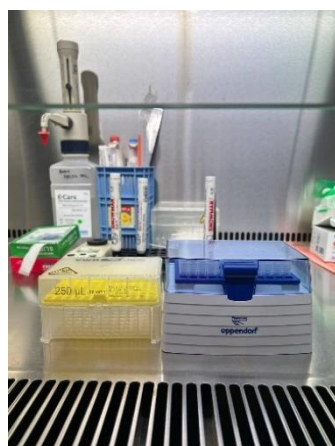
Inkubator



Mikro Pipet



Saline solution



Blue tip & yellow tip



Inkubator



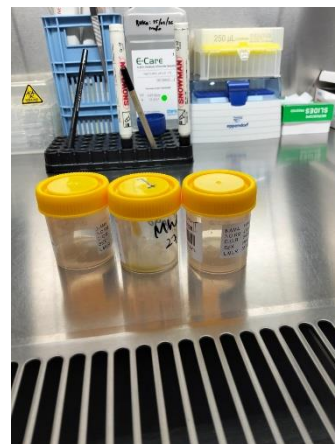
Vitek 2 compact



Lemari asam



Rak dan kaset vitek



Sampel sputum

## Lampiran 6 Proses Penelitian



Pembuatan media MCA



Penanaman sampel



Pewarnaan gram



Memasukan NaCL



Pengamatan sediaan



Pemeriksaan pada alat vitek

## Lampiran 7 Kartu bimbingan



**Kemenkes**  
Poltekkes Medan

**Kementerian Kesehatan**  
**Direktorat Jenderal**  
**Sumber Daya Manusia Kesehatan**  
Politeknik Kesehatan Medan  
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(061) 8368633  
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**PRODI D-III JURUSAN TEKNOLOGI LABORATORIUM MEDIS**  
**POLTEKKES KEMENKES MEDAN**

---

**KARTU BIMBINGAN KARYA TULIS ILMIAH**  
**T.A 2026**

**NAMA**

**NIM**

**NAMA DOSEN PEMBIMBING**

**JUDUL KTI**

: Rehana Rahman Siagian

: P07534023041

: Suryani M.F Situmeang, S.Pd, M.Kes

: Identifikasi Bakteri *Klebsiella pneumoniae* pada penderit pneumonia Di Rumah Sakit Bunda Thamrin Kota Medan

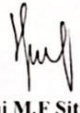
| No  | Hari/Tanggal Bimbingan  | Materi Bimbingan     | Paraf Dosen Pembimbing |
|-----|-------------------------|----------------------|------------------------|
| 1.  | Senin, 19 Januari 2026  | Pengajuan Judul      |                        |
| 2.  | Selasa, 27 Januari 2026 | ACC Judul            |                        |
| 3.  | Kamis, 5 Februari 2026  | Bimbingan Bab I      |                        |
| 4.  | Rabu, 11 Februari 2026  | Revisi Bab I         |                        |
| 5.  | Jumat, 20 Februari 2026 | Bimbingan Bab II-III |                        |
| 6.  | Selasa, 10 Maret 2026   | Revisi Bab II-III    |                        |
| 7.  | Senin, 30 Maret 2026    | Revisi Bab II-III    |                        |
| 8.  | Selasa, 7 April 2026    | ACC Proposal         |                        |
| 9.  | Rabu, 15 April 2026     | Bimbingan Bab IV-V   |                        |
| 10. | Jumat, 8 Mei 2026       | Revisi Bab IV-V      |                        |
| 11. | Kamis, 21 Mei 2026      | Revisi Bab IV-V      |                        |
| 12. | Rabu, 3 Juni 2026       | ACC KTI              |                        |

Ketua Jurusan  
Teknologi Laboratorium Medis



Nita Andrianj-Lubis S.Si, M.Biomed  
NIP.198012242009122001

Medan, 3 Juni 2026  
Dosen Pembimbing



Suryani M.F Situmeang, S.PdM.Kes  
NIP.199609281986032001



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**Lampiran 8 Turnitin**

|                  |                                                                                                       |                |
|------------------|-------------------------------------------------------------------------------------------------------|----------------|
| 17%              |                                                                                                       |                |
| SIMILARITY INDEX |                                                                                                       |                |
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| 2                | <a href="https://repository.poltekkeskupang.ac.id">repository.poltekkeskupang.ac.id</a><br>Internet   | 88 words — 2%  |
| 3                | <a href="https://journal.universitaspahlawan.ac.id">journal.universitaspahlawan.ac.id</a><br>Internet | 71 words — 1%  |
| 4                | <a href="https://journal.um-surabaya.ac.id">journal.um-surabaya.ac.id</a><br>Internet                 | 56 words — 1%  |
| 5                | <a href="http://www.mitrariset.com">www.mitrariset.com</a><br>Internet                                | 43 words — 1%  |
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| 9                | <a href="https://online.osim.ro">online.osim.ro</a><br>Internet                                       | 32 words — 1%  |
| 10               | <a href="https://www.neliti.com">www.neliti.com</a><br>Internet                                       | 30 words — 1%  |