

DAFTAR PUSTAKA

- Afrina, N, Hendri, M, Asyura, N, Amdan, N, Olevia, S, Sulaiman, N & Raj, S2024, Ultrastructural and morphological studies on variables affecting *Escherichia coli* with selected commercial antibiotics, *The Cell Surface*, Vol. 11, No. 100120. <https://doi.org/10.1016/j.tcs.2024.100120>
- Amin, SS, G hozali, TZ, Rusdiana, M & Efendi, S 2023, Identifikasi Bakteri dari Telapak Tangan dengan Pewarnaan Gram, *Jurnal Kimia dan Ilmu Lingkungan*, Vol. 1, No. 1, pp. 2934. <https://doi.org/10.56071/jkil.v1i1.563>
- Anastasia, DS, Luliana, S, Ningrum, NM 2021, Formulation of Instant Drink from (*Moringa oleifera* Lam) and (*Heterotrigona itama*) using Foam Mat Drying Method, *Tradisional Medicine Journal*, Vol. 30, No. 3, pp. 307-314. <https://journal.ugm.ac.id/TradMedJ/article/view/99462/43203>
- Anjaya, P U & Angraini, DI. 2024, ‘Penatalaksanaan Pasien Perempuan Usia 33 Tahun dengan Infeksi Saluran Kemih dan Dispepsia melalui Pendekatan Dokter Keluarga di Wilayah Puskesmas Rawat Inap Kedaton, *Medula*, Vol. 14, pp. 1492–1501. <https://garuda.kemdiktisaintek.go.id/documents/detail/4715764>
- Anzano, A, Ammar, M, Papaiani, M, Grauso, L, Sabbah, M, Capparelli, R & Lanzotti, V 2021, *Moringa oleifera* Lam A Phytochemical and Pharmacological Overview, *Horticulturae* 2021, Vol. 7, No. 409. <https://doi.org/10.3390/horticulturae7100409>
- Ara, R, Nasrullah, SM, Tasnim, Z, Afrin, S, Hawlader, MDH 2023, Effective antimicrobial therapies of urinary tract infections among children in low- and middle-income countries A systematic review, *Pubmed*, Vol. 15, No. 2, pp. 102-110. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/ped4.12375>
- Ayu, LR, Aliwarga, L, Adisasmito, S 2024, Karakterisasi Asam Lemak dan Aktivitas Antioksidan Minyak Hasil Ekstraksi Biji Kelor, *Media Pengembangan Ilmu dan Aplikasi Teknik*, Vol.23 No. 1, pp. 16–22. <https://pdfs.semanticscholar.org/aaf5/c7aafb4d078043a60d5ddfad23651a03bc3.pdf>
- Centers for Disease Control and Prevention 2024, *About Escherichia coli Infection*. <https://www.cdc.gov/ecoli/about/index.html>

- Dima, LLRH, Fatimawali, Lolo, WA 2016, Uji Aktivitas Antibakteri Ekstrak Daun Kelor *Moringa oleifera* L Terhadap Bakteri *Escherichia coli* Dan *Staphylococcus aureus*, *Jurnal Ilmiah Farmasi*, Vol. 5, No. 2, pp. 282-289.
<https://ejournal.unsrat.ac.id/v3/index.php/pharmacon/article/view/12273/1182>
- Dita, A, Fitrotin A, Anindita R & Yeti ES 2018, *Modul Praktikum Media*, Laboratorium Mikrobiologi Fakultas Ilmu Kesehatan Universitas Muhammadiyah Surabaya 2018, pp. 1-124.
https://repository.umsurabaya.ac.id/id/eprint/4824/1/MODUL_PRAKTEK_MEDIA.pdf
- Fatiqin, A, Novita, R, Apriani, I 2019, Pengujian Salmonella Dengan Menggunakan Media Ssa Dan E. Coli Menggunakan Media Emba Pada Bahan Pangan, *Jurnal Indobiosains*, Vol. 1, No. 1, pp. 22–29.
<https://jurnal.univpgripalembang.ac.id/index.php/biosains/article/view/2206/2105>
- Hayat, AMF, Prodi, Mu'tamirah, ST 2019, Pemanfaatan Biji Kelor (*Moringa oleifera*) Sebagai Koagulan Dalam Menurunkan Kadar Fosfat (PO₄) Pada Air Limbah Rumah Sakit, *Lontara Journal of Health Science and Technology*, Vol. 1, No. 1, pp. 1–7.
<https://jurnal.poltekmu.ac.id/index.php/lontarariset/article/view/29/4>
- Irawati E, Mattulada, IK, Wijaya, MF, Pamewa K & Gigi, FK 2021, Efektivitas Daya Hambat Antibakteri Ekstrak Metanol Biji Kelor (*Moringa Oleifera*) terhadap pertumbuhan *Porphyromonas Gingivalis* (in Vitro), *Sinnun Maxillofacial Journal*, Vol. 03, No. 02, pp. 50–59.
<https://ejurnal.fkg.umi.ac.id/index.php/sinnunmaxillofacial/id/article/view/1838>
- Islamiyati D, Husen, F & Ratnaningtyas, NI 2023, Potensi Aktivitas Antibakteri Ekstrak *Moringa oleifera* (Lamk) Terhadap Bakteri *Escherichia Coli* Secara In Silico Dan In Vitro Kelor atau *Moringa oleifera* (Lamk), *Jurnal Bina Cipta Husada*, Vol. 19, No. 2, pp. 80–90.
<https://jurnal.stikesbch.ac.id/index.php/jurnal/article/view/115/136>
- Kamran, M, Hussain, S, Abid, M A & Syed, S 2023, Phytochemical Composition Of *Moringa Oleifera* Its Nutritional January 2024, *Postępy Biologii Komórki*, Vol. 47, No. 3, pp. 321-334.
https://www.researchgate.net/publication/373804656_PHYTOCHEMICAL_COMPOSITION_OF_MORINGA_OLEIFERA_ITS_NUTRITIONAL_AND_PHARMACOLOGICAL_IMPORTANCE

- Khusuma, A, Safitri, Y, Yuniarni, A, Rizki, K 2019, Uji Teknik Difusi Menggunakan Kertas Saring Media Tampung Antibiotik dengan Escherichia Coli Sebagai Bakteri Uji, *Jurnal kesehatan Prima*, Vol.13 No 2, pp. 151–155.
<https://jkip.poltekkesmataram.ac.id/index.php/home/article/view/257/123>
- Kot, B 2019, Antibiotic Resistance Among Uropathogenic Escherichia coli, *Polish Journal of Microbiology*, Vol. 68, No. 4, pp. 403–415.
<https://pmc.ncbi.nlm.nih.gov/articles/PMC7260639/pdf/pjm-68-4-403.pdf>
- Kotta, NRE, Sitorus, A, 2020, Potensi Marungga atau Kelor (*Moringa oleifera* L) Lokal Nusa Tenggara Timur Sebagai Komoditas Pangan Fungsional, pp. 710–721.
<https://conference.unsri.ac.id/index.php/lahansuboptimal/article/viewFile/1859/1142>
- Kurniawan, R, Darniati, D, Abrar, M, Fakhurrazi, F, Jalaluddin, M & Erina, E 2023, Isolasi Dan Identifikasi Bakteri Escherichia Coli Pada Produk Ceker Ayam Bakar Di Gampong Ulee Lheue Kota Banda Aceh, *Jurnal Ilmiah Mahasiswa Veteriner*, Vol. 7 No. 2, pp. 1–11.
<https://garuda.kemdiktisaintek.go.id/documents/detail/3554407>
- Kusumaningsih, MR, Sandy, TW & Realita, F 2025, Faktor yang berhubungan dengan gejala infeksi saluran kemih pada wanita usia subur, *Jurnal Kesehatan Tambusai*, Vol. 6, No. 1, pp. 643–1655.
<https://drive.google.com/file/d/1ldP5klCZXZMFT2i8JbqzRJptMirBNF4/view?usp=drivesdk>
- Lawati, H. Al, Blair, B. M., & Larnard, J. 2024 Urinary Tract Infections Core Curriculum 2024, *American Journal of Kidney Diseases*, Vol. 83, No. 2 pp. 90–100.
<https://congress-med.ru/assets/files/2024/2024-infekczii-mochevyix-putej.pdf>
- Lisdewil A, Kallau, NHG & Detha, AIR 2023, Detection of antibiotics resistant escherichia coli in water sources from poultry farming environments in kelapa lima district, kupang city, *Veteriner Nusantara*, Vol. 6 No 23, pp. 1–14.
<https://ejurnal.undana.ac.id/index.php/jvn/article/view/9006/5826>
- Masfiyah, RR 2016, Perbedaan Zona Hambat Ciprofloksasin Dengan, *Media Farmasi Indonesia*, Vol.14 No. 2, pp. 1517–1521.
<https://drive.google.com/file/d/1wYDFUMfbkI4bW0YJi9hUK28QFQyZjjGs/view?usp=drivesdk>

- Mirzahosseini, HK, Najmeddin, F, Najafi, A, Ahmadi, A & Sharifnia, H 2023, Correlation of biofilm formation, virulence factors, and phylogenetic groups among *Escherichia coli* strains causing urinary tract infection : A global systematic review and meta - analysis, *Pubmed*, Vol. 1 No. 1, pp. 1-11.
<https://pmc.ncbi.nlm.nih.gov/articles/PMC10668210/pdf/JRMS-28-66.pdf>
- Mora-coto, D, Moreno-vélez, PR, Luna-muñoz, J, Jarero-basulto, JJ, Pérez-galicia, A, Moreno-campuzano, S & Ontiveros-torres, MA 2025, Methanolic Extract of *Moringa oleifera* Seed Synergizes the Bactericidal Effect of Ampicillin , Cephalixin , and Amoxicillin / Clavulanic Acid Against Multidrug-Resistant *Escherichia coli* Isolated from Street-Vended Food, *Microbiology Research*, Vol.16, No.11, pp. 1-17.
<https://doi.org/10.3390/microbiolres16110238>
- Mustika, YR, & Puspitasari, Y 2024, Identification of *Escherichia coli* Multidrug Resistance in Cattle in Abattoirs, *Jurnal Medik Veteriner*, Vol. 7 No.1, pp. 19–32.
<https://e-journal.unair.ac.id/JMV>
- Nurjahan, Rahayuningsih, N, Idacahyati K 2024, Cost-Effectiveness Analysis Terapi Antibiotik pada Pasien Infeksi Saluran Kemih di Rumah Sakit, *Jurnal Farmasi Klinik*, Vol. 3 No. 3, pp. 171-182.
https://drive.google.com/file/d/1TEOo8AgRn_6kUMHAWSIJ18vCY4f0MGiB/view?usp=drivesdk
- Raharjo, RB, Rahayu, TP, Kiromah, NZW 2024, Kombinasi Ekstrak Etanol Daun Kelor (*Moringa oleifera* Lam) dan Biji Pepaya (*Carica papaya* L) Terhadap *Escherichia coli* Sebagai Antibakteri, *Jurnal Ilmu Kefarmasian*, Vol. 11, No. 2, pp. 55-65.
<https://journal.uhamka.ac.id/index.php/farmasains/article/view/14146/4764>
- sagar aryal 2022 *Nutrient Agar, Composition, Preparation and Uses*.
https://microbiologyinfo.com/nutrient-agar-composition-preparation-and-uses/?utm_source
- Sagar Aryal, P 2022 *EMB Agar Composition, Principle, Preparation, Results, Uses*.
<https://microbenotes.com/eosin-methylene-blue-emb-agar/>
- Sakul, G, Simbala, HEI & Rundengan, G 2020, Uji daya Hambat Ekstrak Etanol Daun Pangi (*Pangium edule* Reinw. ex Blume) Terhadap Bakteri

Staphylococcus aureus, Escherichia coli Dan Pseudomonas aeruginosa, *Pharmakon*, Vol. 9 No. 2, pp. 275–283.

https://www.researchgate.net/publication/351236265_UJI_DAYA_HAMBAT_EKSTRAK_ETANOL_DAUN_PANGI_Pangium_edule_Reinw_ex_Blume_TERHADAP_BAKTERI_Staphylococcus_aureus_Escherichia_coli_DAN_Pseudomonas_aeruginosa

Salman, AN, Prangdimurti, E & Hunaefi, D 2023, Peningkatan Potensi Biji Kelor (*Moringa oleifera*) sebagai Pangan Pencegah Hiperkolesterolemia, *Jurnal Ilmu Pertanian*, Vol. 28, No.4, pp. 525–533.

https://www.researchgate.net/publication/398940574_Peningkatan_Potensi_Biji_Kelor_Moringa_oleifera_sebagai_Pangan_Pencegah_Hiperkolesterolemia

Susanti, A & Nurman, M 2022, Manfaat Kelor (*Moringa Oleifera*) Bagi Kesehatan, *Jurnal Kesehatan Tambusai*, Vol. 3 No. 3, pp. 509–513.

<https://doi.org/10.31004/jkt.v3i3.7287>

Takiyako, SA, Takyi, CAA, Chama, MA, Osei, MM, Donkor, ES & Futagbi, G 2025, In vitro antibacterial activity of *Moringa oleifera* leaf and seed extracts against antibiotic-resistant bacteria and clinical isolates, *Pubmed*, Vol 6, No 257. pp, 1-8.

https://pmc.ncbi.nlm.nih.gov/articles/PMC12243137/pdf/12906_2025_Article_5006.pdf

Unok, W, & Mangawing, MS 2024 Resistensi Antibiotik Terhadap Infeksi Saluran Kemih (ISK), *Jurnal Kolaboratif Sains*, Vol. 7, No.5, pp. 1822–1828.

<https://drive.google.com/file/d/1NZNP47SgarZi3yyBGT3fOnLqKqE8dbz/view?usp=drivesdk>

Widianingsih, M & Jesus, AMD 2018, Isolasi *Escherichia coli* Dari Urine Pasien Infeksi Saluran Kemih Isolation Of *Escherichia coli* From Urine Of Patients Of Urina Tract Infection, *Jurnal Biologi*, Vol. 11, No2, pp. 99–108.

<https://doi.org/10.15408/kauniyah.v1i2.5899>

Wigunarti, AH Pujiyanto, S & Supriyadi, A 2019, Uji Aktivitas Antibakteri Ekstrak Biji Kelor *Moringa oleifera* L Terhadap Pertumbuhan Bakteri *Staphylococcus aureus* dan Bakteri *Escherichia coli* , *Berkala Bioteknologi*, Vol. 2, No. 2

<https://ejournal2.undip.ac.id/index.php/bb/article/view/6712>

Wulandari , S, Nisa, YS, Taryono , Indarti, S, Sayekti, RS 2021, Sterilisasi peralatan

dan media kultur jaringan, *Agrotechnology Innovation*, Vol.4 No.2, pp. 16–19.
<https://journal.ugm.ac.id/Agrinova/article/view/77010>