

DAFTAR PUSTAKA

- Afifurrahman, A., Samadin, K. H., dan Aziz, S. 2014. Pola Kepekaan Bakteri *Staphylococcus aureus* terhadap Antibiotik Vancomycin di RSUP Dr. Mohammad Hoesin Palembang. *Majalah Kedokteran Sriwijaya*. 46 (4): 266-270.
- Ajoke, O. I., Okeke, I. O., Odeyemi, O. A., and Okwori, A. E. J. 2021. Prevalence of methicillin-resistant *Staphylococcus aureus* from healthy community individuals volunteers in Jos south, Nigeria. *Journal of Microbiology, Biotechnology and Food Sciences*. 1 (6): 1389-1405.
- Apridamayanti, P., Sari, R., Rachmaningtyas, A., & Aranthi, V. 2021. Antioxidant, antibacterial activity and FICI (Fractional Inhibitory Concentration Index) of ethanolic extract of *Melastoma malabathricum* leaves with amoxicillin against pathogenic bacteria. *Nusantara Bioscience*, 13(2).
- Bagul, U. S., and Sivakumar, S. M. 2016. Antibiotic susceptibility testing: A review on current practices. *Int J Pharm*. 6. (3): 11-17.
- Balouiri, M., Sadiki, M and Ibnsouda, S. K. 2015. Methods for in vitro evaluating antimicrobial activity: A review. *Journal of Pharmaceutical Analysis*. 11 (005).
- Bernatová, S., Samek, O., Pilát, Z., Šerý, M., Ježek, J., Jákl, P., ... & Růžička, F. (2013). Following the mechanisms of bacteriostatic versus bactericidal action using Raman spectroscopy. *Molecules*, 18(11), 13188-13199.
- Bitrus, A., Peter, O., Abbas, M., and Goni, M. 2018. *Staphylococcus aureus*: a review of antimicrobial resistance mechanisms. *Veterinary Sciences: Research and Reviews*. 4. (2): 43-54.
- Blesson, J., Saji, C.V., Nivya, R.M., and Kumar, R. 2015. Sinergistic Antibacterial Activity Of Natural Plant Extracts And Antibiotiks Against Methicillin Resistant *Staphylococcus Aureus* (MRSA). *World Journal Of Pharmacy And Pharmaceutical Sciences*. 4 (03): 741-763.
- Cahyani, V. R. 2013. Pengaruh beberapa metode sterilisasi tanah terhadap status hara, populasi mikrobiota, potensi infeksi mikorisa dan pertumbuhan tanaman. *Sains Tanah-Journal of Soil Science and Agroclimatology*, 6(1), 43-52.

- Cheung, G. Y., Bae, J. S., & Otto, M. 2021. Pathogenicity and virulence of *Staphylococcus aureus*. *Virulence*, 12(1), 547-569.
- Chudlori, B., Kuswandi, M., & Indrayudha, P. 2012. Pola Kuman dan Resistensinya Terhadap Antibiotika dari Spesimen Pus di RSUD Dr. Moewardi Tahun 2012. *Pharmaceutical Journal Of Indonesia* ISSN. 2012. 13(2). pp : 70-76.
- CLSI. 2020. *Performance Standards for Antimicrobial Susceptibility Testing*. 30th ed. CLSI supplement M100. Wayne, PA: Clinical and Laboratory Standards Institute
- Coelho, T., Machado, D., Couto, I., Maschmann, R., Ramos, D., Groll, A. V., Rossetti, M. L., Silva, P. A and Viveiros, M. 2015. Enhancement of antibiotic activity by efflux inhibitors against multidrug resistant *Mycobacterium tuberculosis* clinical isolates from Brazil. *Frontiers in Microbiology*. 6:330
- Dewi, A. K. 2013. Isolasi, Identifikasi dan Uji Sensitivitas *Staphylococcus aureus* terhadap Amoxicillin dari Sampel Susu Kambing Peranakan Ettawa (PE) Penderita Mastitis Di Wilayah Girimulyo, Kulonprogo, Yogyakarta. *Jurnal Sain Veteriner*. ISSN : 0126 – 0421: 31 (2)
- Ditjen POM. 2020. Farmakope Indonesia Edisi VI. Jakarta: Kementeria Kesehatan RI.
- Gurung, R. R., Maharjan, P., and Chhetri, G. G. 2020. Antibiotic resistance pattern of *Staphylococcus aureus* with reference to MRSA isolates from pediatric patients. *Future science OA*. 6. (4): FSO464.
- Hayati, L. N., Tyasningsih, W., Praja, R. N., Chusniati, S., Yunita, M. N., & Wibawati, P. A. 2019. Isolasi dan identifikasi *Staphylococcus aureus* pada susu kambing peranakan etawah penderita mastitis subklinis di Kelurahan Kalipuro, Banyuwangi. *Jurnal Medik Veteriner*, 2(2), 76-82.
- Hikmawanti, N. P. E., Fatmawati, S., Asri, A. W. 2021. The effect of ethanol concentrations as the extraction solvent on antioxidant activity of Katuk (*Sauvagesia androgynus* (L.) Merr.) leaves extracts. In *IOP Conference Series: Earth and Environmental Science* (Vol. 755, No. 1, p. 012060). IOP Publishing.
- Hoque, M. M., Rattila, S., Shishir, M. A., Bari, M. L., Inatsu, Y., and Kawamoto, S. 2011. Antibacterial activity of ethanol extract of betel leaf (*Piper betle* L.) against some food borne pathogens. *Bangladesh Journal of Microbiology*. 28(2): 58-63.
- Hussain, R. M., Din, N. A. M., & Nasir, N. A. N. M. 2013. Piper betle ethanolic extract reduces neutrophil scavenging ability and possibly

- catalase activity in *S. aureus*. *Int J Pharm Sci Rev Res*, 22(1), 35-40.
- Indijah, S. W., dan Fajri, P. 2016. Farmakologi. Jakarta: Kementeria Kesehatan RI.
- Katzung, B. G., Masters, S. B., and Trevor, A. J. 2012. Basic and Clinical Pharmacology 12th Edition. San Fransisco: Mc Graw Hill Medical
- Kuok, C. F., Hoi, S.O., Hoi, C.F., Chan, C.H., Fong, I.H., Ngok, C.K., Meng, L.R. and Fong, P. 2017. Synergistic Antibacterial Effects of Herbal Extracts and Antibiotics on Methicillin-Resistant *Staphylococcus Aureus*: A Computational and Experimental Study. *Experimental Biology and Medicine*. 242. (7): 731–743.
- Lubis, R. R., and Marlisa, D. D. W. 2020. Antibacterial activity of betle leaf (*Piper betle* L.) extract on inhibiting *Staphylococcus aureus* in conjunctivitis patient. *American journal of clinical and experimental immunology*. 9. (1): 1.
- Madhumita, M., Guha, P., & Nag, A. 2020. Bio-actives of betel leaf (*Piper betle* L.): A comprehensive review on extraction, isolation, characterization, and biological activity. *Phytotherapy Research*, 34(10), 2609-2627.
- Maida, S., & Lestari, K. A. P. (2019). Aktivitas antibakteri amoksisin terhadap bakteri gram positif dan bakteri gram negatif. *Jurnal Pijar Mipa*, 14(3), 189-191.
- Martin, S. 2010. In Vitro Antimicrobial Synergy Testing of *Acinetobacter baumannii*. Afrika Selatan. University of Stellenbosch.
- Miladi, H., Zmantar, T., Chaabouni, Y., Fedhila, K., Bakhrouf, A., Mahdouani, K., & Chaieb, K. 2016. Antibacterial and efflux pump inhibitors of thymol and carvacrol against food-borne pathogens. *Microbial pathogenesis*, 99, 95-100.
- Olga, P., Petar, K., Jelena, M., & Srdjan, R. 2008. Screening method for detection of hydrocarbon-oxidizing bacteria in oil-contaminated water and soil specimens. *Journal of Microbiological Methods*, 74(2-3), 110-113.
- Owu, N. M., & Jayanti, M. 2020. Uji Efektivitas Penghambatan Dari Ekstrak Daun Sirih (*Piper Betle* L.) Terhadap Bakteri *Streptococcus mutans*. *Jurnal Biomedik: JBM*, 12(3), 145-152.
- Rosmaidar, R., Handayani, M., Fadillah, F., Armansyah, T., Siregar, T. N., Hafizuddin, H., & Husnurrizal, H. The Effect of Red Betel Leaf

- (*Piper crocatum*) and Moringa Leaf Extracts on Endometritis Levels in Aceh Cows. *Majalah Obat Tradisional*, 26(3), 161-168.
- Rukmini, A., Utomo, D. H., and Laily, A. N. 2020. Skrining Fitokimia Familia Piperaceae. In *Prosiding Seminar Nasional Hayati* (Vol. 7, pp. 6-12).
- Sarjani, T. M., Mawardi, M., Pandia, E. S., dan Wulandari, D. 2017. Identifikasi Morfologi Dan Anatomi Tipe Stomata Famili Piperaceae Di Kota Langsa. *Jurnal IPA & Pembelajaran IPA*. 1. (2): 182-191.
- Sartini, S., Djide, M.N., Amir, M.N. and Permana, A.D. 2020. Phenolic-rich green tea extract increases the antibacterial activity of amoxicillin against *Staphylococcus aureus* by in vitro and ex vivo studies. *Journal of Pharmacy & Pharmacognosy Research*. 8. (6): 491-500.
- Septama, A. W., and Panichayupakaranant, P. 2016. Synergistic effect of artocarpin on antibacterial activity of some antibiotics against methicillin-resistant *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and *Escherichia coli*. *Pharmaceutical biology*. 54. (4): 686-691.
- Sholihah, M. A., Ahmad, U., & Budiastri, I. W. 2017. Aplikasi gelombang ultrasonik untuk meningkatkan rendemen ekstraksi dan efektivitas antioksi dan kulit manggis. *Jurnal keteknikan pertanian*, 5(2).
- Sirwutubun, M., Ludong, M. M., & Rawung, D. 2016. Pengaruh Konsentrasi Etanol Terhadap Karakteristik Ekstrak Pewarna Alami Buah Merah (*Pandanus Conoideus Lamk.*) Dan Aplikasinya Pada Produk Pangan. In COCOS (Vol. 7, No. 5).
- Sitorus, P. 2018. Uji Efek Kombinasi Amoksisilin Dengan Ekstrak Etanol Daun Sirih (*Piper Betle L*) Terhadap Pertumbuhan Bakteri *Escherichia Coli* Dan *Staphylococcus Aureus*. In *Talenta Conference Series: Tropical Medicine (TM)* (Vol. 1, No. 1, pp. 313-319).
- Soleha, T. U. 2015. Uji kepekaan terhadap antibiotik. *Juke Unila*. 5. (9):119-123.
- Stefanovic, O., Stankovic, M. S., and Comic, L. 2011. In vitro antibacterial efficacy of *Clinopodium vulgare L.* extracts and their synergistic interaction with antibiotics. *Journal of Medicinal Plants Research*. 5. (17): 4074-4079.
- Sujono, H., Rizal, S., Purbaya, S., & Jasmansyah, J. 2019. Antibacterial Activity of the Essential Oil from Betel leaf (*Piper betle L.*) against

- Streptococcus pyogenes and Staphylococcus aureus. *Jurnal Kartika Kimia*, 2(1), 30-36.
- Tammi, A. 2015. Aktifitas Antibakteri Buah Makasar (*Brucea javanica*) terhadap Pertumbuhan *Staphylococcus aureus*. *Jurnal Agromed Unila*; 2(2):99-103
- Taukoorah, U., Lall, N. and Mahomoodally, F. 2016. *Piper betle L.(betel quid) shows bacteriostatic, additive, and synergistic antimicrobial action when combined with conventional antibiotics*. *South African Journal of Botany*. 105: pp.133-140.
- Tiwari, P. Kumar, B. Kaur, M. Kaur, H. 2011. Phytochemical screening and extraction: A review. *Internationale Pharmaceutica Sciencia*. Vol.1. Issue.1.
- Veranita, W., Artini, K. S., Raharjo, D., & Effendi, F. 2021. Literature Review: Hand sanitizer formulation from extract and essential oil of betel leaf (*Piper betle Linn.*) As well as antibacterial activity test. In *International Conference Health, Science And Technology (ICOHETECH)* (pp. 26-27).
- Vifta, R. S., Wansyah, M. A., & Hati, A. K. 2017. perbandingan total rendemen dan skrining antibakteri ekstrak etanol daun sirih hijau (*Piper betle L.*) secara mikrodilusi. *Journal of Science and Applicative Technology*, 1(2), 87-93.
- WHO. 2020. *Antimicrobial Resistance*. (Online). (www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance).
- Widiyastuti, Y., Haryanti, S., & Subositi, D. (2016, April). Karakterisasi Morfologi dan Kandungan Minyak Atsiri Beberapa Jenis Sirih (*Piper sp.*). In *Proceeding of Mulawarman Pharmaceuticals Conferences* (Vol. 3, pp. 474-481).

LAMPIRAN

Lampiran 1. Skema kerja umum

