

DAFTAR PUSTAKA

- Archer, N. K., Mazaitis, M. J., William Costerton, J., Leid, J. G., Powers, M. E., & Shirtliff, M. E. (2011). Staphylococcus aureus biofilms: Properties, regulation and roles in human disease. *Virulence*, 2(5), 445–459. <https://doi.org/10.4161/viru.2.5.17724>
- Aryal, S. (2018). *Coagulase Test- Principle, Procedure, Types, Interpretation and Examples*. <https://microbiologyinfo.com/coagulase-test-principal-procedure-types-interpretation-and-examples/>
- Badan POM RI. (2012). Acuan Sediaan Herbal Vol.7 Edisi I. In *Acuan Sediaan Herbal Vol.7 Edisi I* (Vol. 7).
- Badaring, D. R., Sari, S. P. M., Nurhabiba, S., Wulan, W., & Lembang, S. A. R. (2020). Uji Ekstrak Daun Maja (*Aegle marmelos* L.) terhadap Pertumbuhan Bakteri *Escherichia coli* dan *Staphylococcus aureus*. *Indonesian Journal of Fundamental Sciences*, 6(1), 16. <https://doi.org/10.26858/ijfs.v6i1.13941>
- Biswas, D., Mandal, S., Chatterjee Saha, S., Tudu, C. K., Nandy, S., Batiha, G. E. S., Shekhawat, M. S., Pandey, D. K., & Dey, A. (2021). Ethnobotany, phytochemistry, pharmacology, and toxicity of *Centella asiatica* (L.) Urban: A comprehensive review. *Phytotherapy Research*, August, 1–31. <https://doi.org/10.1002/ptr.7248>
- Cho, H. S., Lee, J. H., Cho, M. H., & Lee, J. (2015). Red wines and flavonoids diminish *Staphylococcus aureus* virulence with anti-biofilm and anti-hemolytic activities. *Biofouling*, 31(1), 37–41. <https://doi.org/10.1080/08927014.2014.991319>
- Endarini, L. H. (2016). *Farmakognosi dan Fitokimia*.
- GHELLAI, L., HASSAINE, H., KLOUCHE, N., KHADIR, A., AISSAOUI, N., NAS, F., & ZINGG, W. (2014). Detection of biofilm formation of a collection of fifty strains of *Staphylococcus aureus* isolated in Algeria at the University Hospital of Tlemcen. *Journal of Bacteriology Research*, 6(1), 1–6. <https://doi.org/10.5897/jbr2013.0122>
- Haney, E. F., Trimble, M. J., & Hancock, R. E. W. (2021). Microtiter plate assays to assess antibiofilm activity against bacteria. *Nature Protocols* 2021 16:5, 16(5), 2615–2632. <https://doi.org/10.1038/s41596-021-00515-3>
- Homenta, H. . (2016). Infeksi Biofilm Bakterial. *Jurnal E-Biomedik*, 4(1), 1–11. <https://doi.org/10.35790/ebm.4.1.2016.11736>
- Jamal M et al. (2015). Bacterial Biofilm: Its Composition, Formation and Role in Human Infections. *Research & Reviews: Journal of Microbiology and Biotechnology*, 4(3), 1–14. Retrieved from <http://www.rr. Research & Reviews:Journal of Microbiology and Biotechnology>, 4(3), 1–14. https://www.researchgate.net/publication/285228261_Bacterial_Biofilm_Its_

Composition_Formation_and_Role_in_Human_Infections

- Jawetz, E., Melnick, J. L., Adelberg, E. A., & Brooks, G. F. (2019). *Jawetz Melnick & Adelbergs Medical Microbiology 27 E* (27th ed.). <https://books.google.com/books?id=PumOCgAAQBAJ>
- Jayakumar, J., Kumar, V. A., Biswas, L., & Biswas, R. (2021). Therapeutic applications of lysostaphin against *Staphylococcus aureus*. *Journal of Applied Microbiology*, *131*(3), 1072–1082. <https://doi.org/10.1111/JAM.14985>
- Kemenkes RI. (2014). Farmakope Indonesia (5Th Ed). In *Jakarta*.
- Kuntaman. (2020). *MRSA (Methicillin Resistant Staphylococcus aureus) di Indonesia: Permasalahan dan Solusi - Unair News*. <http://news.unair.ac.id/2020/11/07/mrsa-methicillin-resistant-staphylococcus-aureus-di-indonesia-permasalahan-dan-solusi/>
- Lahiri, D., Dash, S., Dutta, R., & Nag, M. (2019). Elucidating the effect of anti-biofilm activity of bioactive compounds extracted from plants. *Journal of Biosciences*, *44*(2). <https://doi.org/10.1007/s12038-019-9868-4>
- Liu, M., Wu, X., Li, J., Liu, L., Zhang, R., Shao, D., & Du, X. (2017). The specific anti-biofilm effect of gallic acid on *Staphylococcus aureus* by regulating the expression of the *ica* operon. *Food Control*, *73*, 613–618. <https://doi.org/10.1016/J.FOODCONT.2016.09.015>
- Liu, W. H., Liu, T. C., & Mong, M. C. (2015). Antibacterial effects and action modes of asiatic acid. *BioMedicine (Taiwan)*, *5*(3), 22–29. <https://doi.org/10.7603/s40681-015-0016-7>
- Luther, M. K., Parente, D. M., Caffrey, A. R., Daffinee, K. E., Lopes, V. V, Martin, E. T., & Laplante, K. L. (2018). *Clinical and Genetic Risk Factors for Biofilm-Forming Staphylococcus aureus*.
- Melchior, M. B., van Osch, M. H. J., Graat, R. M., van Duijkeren, E., Mevius, D. J., Nielen, M., Gaastra, W., & Fink-Gremmels, J. (2009). Biofilm formation and genotyping of *Staphylococcus aureus* bovine mastitis isolates: Evidence for lack of penicillin-resistance in Agr-type II strains. *Veterinary Microbiology*, *137*(1–2), 83–89. <https://doi.org/10.1016/J.VETMIC.2008.12.004>
- Merck. (2021). *Tryptic Soy Broth for microbiology Tryptone Soya Broth*. <https://www.sigmaaldrich.com/ID/en/product/sial/22092>
- Miao, J., Lin, S., Soteyome, T., Peters, B. M., Li, Y., Chen, H., Su, J., Li, L., Li, B., Xu, Z., Shirliff, M. E., & harro, J. M. (2019). Biofilm Formation of *Staphylococcus aureus* under Food Heat Processing Conditions: First Report on CML Production within Biofilm. *Scientific Reports*, *9*(1), 1–9. <https://doi.org/10.1038/s41598-018-35558-2>
- Muttaqin, F. A. (2018). *KONSENTRASI DAYA HAMBAT EKSTRAK BUAH*

COKLAT (THEOBROMA CACAO L.) TERHADAP PEMBENTUKAN EPS BIOFILM ENTEROCOCCUS FAECALIS. Universitas Airlangga.

- Nasution, M. Y., Restuati, M., Pulungan, A. S. S., Pratiwi, N., & Diningrat, D. S. (2018). *ANTIMICROBIAL ACTIVITIES OF CENTELLA ASIATICA LEAF AND ROOT EXTRACTS ON SELECTED PATHOGENIC MICRO-ORGANISMS.* <https://scialert.net/abstract/?doi=jms.2018.198.204>
- Nuurul, S., Mohammad, H., Shukri, M., & Nor, M. (2020). Chemical fingerprint of *Centella Asiatica*'s bioactive compounds in the ethanolic and aqueous extracts. *Advances in Biomarker Sciences and Technology*, 2, 35–44. <https://doi.org/10.1016/j.abst.2020.10.001>
- Otto, M. (2008). Staphylococcal biofilms. *Gram-Positive Pathogens*, 699–711. <https://doi.org/10.1128/9781683670131.ch43>
- Park, K. S. (2021). *Pharmacological Effects of Centella asiatica on Skin Diseases: Evidence and Possible Mechanisms.* <https://doi.org/10.1155/2021/5462633>
- Phuong, N. T. M., Van Quang, N., Mai, T. T., Anh, N. V., Kuhakarn, C., Reutrakul, V., & Bolhuis, A. (2017). Antibiofilm activity of α -mangostin extracted from *Garcinia mangostana* L. against *Staphylococcus aureus*. *Asian Pacific Journal of Tropical Medicine*, 10(12), 1154–1160. <https://doi.org/10.1016/j.apjtm.2017.10.022>
- Putri, F. E. (2019). *AKTIVITAS PENGHAMBATAN PEMBENTUKAN BIOFILM EKSTRAK ETANOL PEGAGAN (Centella asiatica (L.) Urban) TERHADAP Staphylococcus aureus.* Universitas Sanata Dharma.
- Qu, Y., Daley, A. J., Istivan, T. S., Garland, S. M., & Deighton, M. A. (2010). Antibiotic susceptibility of coagulase-negative staphylococci isolated from very low birth weight babies: comprehensive comparisons of bacteria at different stages of biofilm formation. *Annals of Clinical Microbiology and Antimicrobials*, 9, 1–12. <https://doi.org/10.1186/1476-0711-9-16>
- Rattanakom, S., & Yasurin, P. (2014). *Review: Antibacterial, Antioxidant and Chemical Profile of Centella asiatica.* 7(2), 445–451.
- Raudah, S., Kamil, & Winda, L. (2020). Pengaruh Ekstrak Daun Pegagan (*Centella Asiatica* (L.) Urban) Terhadap Pertumbuhan Bakteri *Staphylococcus Aureus* Pada Luka Penderita Diabetes Mellitus Secara Invitro. *Jurnal Medika Karya Ilmiah Kesehatan*, 5(1), 1–11.
- Roy, S., Santra, S., Das, A., Dixith, S., Sinha, M., Ghatak, S., Ghosh, N., Khanna, S., Mathew-steiner, S., Das, P., Blackstone, B. N., Powell, H. M., Valerie, K., Wozniak, D. J., & Sen, C. K. (2021). *Staphylococcus aureus Biofilm Infection Compromises Wound Healing by Causing Deficiencies in Granulation Tissue Collagen.* 271(6), 1174–1185. <https://doi.org/10.1097/SLA.0000000000003053>.Staphylococcus
- Ruchi, T., Sujata, B., & Anuradha, D. (2018). Comparison of Phenotypic Methods

- for the Detection of Biofilm Production in Indwelling Medical Devices Used in NICU & PICU in a Tertiary Care Hospital in Hyderabad, India. *International Journal of Current Microbiology and Applied Sciences*, 7(09), 3265–3273. <https://doi.org/10.20546/ijcmas.2018.709.405>
- Ryan, K., Ahmad, N., Alspaugh, J. A., Drew, W. L., Lagunoff, M., Pottinger, P., Reller, L. B., Reller, M. E., Sterling, C. R., & Weissman, S. (2018). Sherris Medical Microbiology 7th ed. In *Prevention and Control of Infections in Hospitals*. https://doi.org/10.1007/978-3-319-99921-0_4
- Sapkota, A. (2020). *Catalase Test- Principle, Procedure, Types, Results, Uses*. <https://microbenotes.com/catalase-test-principle-procedure-and-result-interpretation/>
- Singh, A., Prakash, P., Achra, A., Singh, G., Das, A., & Singh, R. (2017). Standardization and classification of in vitro biofilm formation by clinical isolates of *Staphylococcus aureus*. *Journal of Global Infectious Diseases*, 9(3), 93–101. https://doi.org/10.4103/jgid.jgid_91_16
- Sit, P. S., Teh, C. S. J., Idris, N., Sam, I. C., Syed Omar, S. F., Sulaiman, H., Thong, K. L., Kamarulzaman, A., & Ponnampalavanar, S. (2017). Prevalence of methicillin-resistant *Staphylococcus aureus* (MRSA) infection and the molecular characteristics of MRSA bacteraemia over a two-year period in a tertiary teaching hospital in Malaysia. *BMC Infectious Diseases*, 17(1), 1–14. <https://doi.org/10.1186/S12879-017-2384-Y/TABLES/3>
- Slobodníková, L., Fialová, S., Rendeková, K., Kováč, J., & Mučaji, P. (2016). Antibiofilm activity of plant polyphenols. *Molecules*, 21(12), 1–15. <https://doi.org/10.3390/molecules21121717>
- Sutrisno, E., Adnyana, I. K., Sukandar, E. Y., Fidrianny, I., & Lestari, T. (2014). Kajian aktivitas penyembuhan luka dan antibakteri binahong (. *Bionatura-Jurnal Ilmu-Ilmu Hayati Dan Fisik*, 16(2), 78–82.
- Sycz, Z., Tichaczek-goska, D., & Jezierska-domaradzka, A. (2021). *Are Uropathogenic Bacteria Living in Multispecies Biofilm Susceptible to Active Plant Ingredient — Asiatic Acid ?* 23(Figure 1).
- Todar. (2020). *Staphylococcus aureus*. <http://textbookofbacteriology.net/staph.html>
- Tortora, G. J., Funke, B. R., & Case, C. L. (2018). Microbiology: An Introduction . Gerard J. Tortora , Berdell R. Funke , Christine L. Case. In *The Quarterly Review of Biology* (Vol. 58, Issue 2). <https://doi.org/10.1086/413269>
- Vasavi, H. S., Arun, A. B., & Rekha, P. D. (2016). Anti-quorum sensing activity of flavonoid-rich fraction from *Centella asiatica* L. against *Pseudomonas aeruginosa* PAO1. *Journal of Microbiology, Immunology and Infection*, 49(1), 8–15. <https://doi.org/10.1016/j.jmii.2014.03.012>
- WHO. (2020). *Antimicrobial resistance*. <https://www.who.int/news-room/fact->

sheets/detail/antimicrobial-resistance

Widiyastuti, Y., Wahjoedi, B., & Januwati, M. (2016). *Pegagan (Centella asiatica (L.) Urb.) Tumbuhan Berkhasiat Multi Manfaat* (pp. 1–122).

Zahara, K., Bibi, Y., & Tabassum, S. (2014). Clinical and therapeutic benefits of *Centella asiatica*. *Pure and Applied Biology*, 3(4), 152–159. <https://doi.org/10.19045/bspab.2014.34004>