

DAFTAR PUSTAKA

- Abdullah, M., Maryam, S., 2020. Uji Aktivitas Antioksidan Isolat Fungi Endofit Daun Galing-galing (*Cayratia trifolia* L.) dengan Metode 1,1-Diphenyl-2-Picrylhydrazil (DPPH), Jurnal Farmasi Desember.
- Aini, K., Elfita, Widjajanti, H., Setiawan, A., Kurniawati, A.R., 2022. Antibacterial activity of endophytic fungi isolated from the stem bark of jambu mawar (*Syzygium jambos*). Biodiversitas 23, 521–532. <https://doi.org/10.13057/biodiv/d230156>
- Asomadu, R.O., Ezeorba, T.P.C., Ezike, T.C., Uzoechina, J.O., 2024. Exploring the antioxidant potential of endophytic fungi: a review on methods for extraction and quantification of total antioxidant capacity (TAC). 3 Biotech 14, 127. <https://doi.org/10.1007/s13205-024-03970-3>
- Azim, M., Novasari, N., Hariadi, P., Febriani, Y., Yuliana, T.P., 2022. Endophyte Extract From Nettle (*Urtica dioica* L.) Against *Staphylococcus aureus* and *Escherichia coli*. ALKIMIA: Jurnal Ilmu Kimia dan Terapan 6, 196–203. <https://doi.org/10.19109/alkimia.v6i1.11277>
- Bahadori Ganjabadi, P., Farzaneh, M., Mirjalili, M.H., 2023. Development and Optimization of Culture Medium for the Production of Glabridin by *Aspergillus eucalypticola*: An Endophytic Fungus Isolated from *Glycyrrhiza glabra* L. (Fabaceae). Mycobiology 51, 230–238. <https://doi.org/10.1080/12298093.2023.2225253>
- Bains, A., Chawla, P., 2020. In vitro bioactivity, antimicrobial and anti-inflammatory efficacy of modified solvent evaporation assisted *Trametes versicolor* extract. 3 Biotech 10. <https://doi.org/10.1007/s13205-020-02397-w>
- Baron, N.C., Rigobelo, E.C., 2022. Endophytic fungi: a tool for plant growth promotion and sustainable agriculture. Mycology. <https://doi.org/10.1080/21501203.2021.1945699>
- Breijyeh, Z., Jubeh, B., Karaman, R., 2020. Resistance of gram-negative bacteria to current antibacterial agents and approaches to resolve it. Molecules. <https://doi.org/10.3390/molecules25061340>
- Chaudhary, A., Kumar, P., Jaswal, V.S., Thakur, A., 2019. Analytical Techniques for the Identification and Quantification of Flavonoids, in: Current Aspects of Flavonoids: Their Role in Cancer Treatment. Springer Singapore, Singapore, pp. 9–22. https://doi.org/10.1007/978-981-13-5874-6_2
- Coskun, O., 2016. Separation techniques: Chromatography. North Clin Istanbul 3, 156–160. <https://doi.org/10.14744/nci.2016.32757>
- De Gregorio, M.A., Zhang, L., Mahomoodally, M.F., Zengin, G., Jugreet, S., Yildiztugay, E., Fiorini, A., Lucini, L., 2024. Metabolomic Profiles and Biopharmaceutical Properties of *Petrosimonia brachiata* and *P. nigdeensis* from Turkey. Plants 13, 2073. <https://doi.org/10.3390/plants13152073>
- Destryana, R., Estiasih, T., Sukardi, Pranowo, D., 2024. Zingiberaceae Rhizome Essential Oil: A Review of Chemical Composition, Biological Activity, and Application in Food Industry. IOP Conf Ser Earth Environ Sci 1299, 012010. <https://doi.org/10.1088/1755-1315/1299/1/012010>
- Dolok, T.N.S., Nursaadah, E., Primairyani, A., 2023. Keanekaragaman Hayati Tumbuhan an Pemanfaatannya. BIOEDUSAINS:Jurnal Pendidikan Biologi 7453. <https://doi.org/10.31539/bioedusains.v6i2.7547>
- (i, A.S., do Vale, H.M.M., 2022a. Methods used for the study of . review on methodologies and challenges, and associated tips. s://doi.org/10.1007/s00203-022-03283-0



- dos Reis, J.B.A., Lorenzi, A.S., do Vale, H.M.M., 2022b. Methods used for the study of endophytic fungi: a review on methodologies and challenges, and associated tips. *Arch Microbiol.* <https://doi.org/10.1007/s00203-022-03283-0>
- Fadiji, A.E., Babalola, O.O., 2020. Exploring the potentialities of beneficial endophytes for improved plant growth. *Saudi J Biol Sci.* <https://doi.org/10.1016/j.sjbs.2020.08.002>
- Kancherla, N., Dhakshinamoorthi, A., Chitra, K., Komaram, R.B., 2019. Preliminary Analysis of Phytoconstituents and Evaluation of Anthelmintic Property of *Cayratia auriculata* (In Vitro). *Maedica (Bucur)* 14, 350–356. <https://doi.org/10.26574/maedica.2019.14.4.350>
- KAPA Biosystems, 2013. KAPA HiFi HotStart ReadyMix PCR Kit (No. KR0370), v5.13. Boston, Massachusetts.
- Khairuddin, K., Taebe, B., Kombong, O.I., 2021. Measurement of Specific and Non-Specific Parameters of Sampare Leaves Ethanol Extract (*Glochidion* sp var. *Biak*) as a Traditional Antimalarial Agent. *Journal of Pharmaceutical and Medicinal Sciences* 6.
- Kowalska, T., Sajewicz, M., 2022. Thin-Layer Chromatography (TLC) in the Screening of Botanicals-Its Versatile Potential and Selected Applications. *Molecules* 27. <https://doi.org/10.3390/molecules27196607>
- LibreTexts Chemistry, 2024. General Lab Techniques, 1st ed.
- Linh, N.N., Hop, N.Q., Nhung, P.T.T., Dao, P.T.B., Manh, V.Q., Pham, T.V., Son, N.T., 2024. *Glochidion* Species: A Review on Phytochemistry and Pharmacology. *Nat Prod Commun.* <https://doi.org/10.1177/1934578X241276962>
- Magalhães, L.M., Almeida, M.I.G.S., Barreiros, L., Reis, S., Segundo, M.A., 2012. Automatic Aluminum Chloride Method for Routine Estimation of Total Flavonoids in Red Wines and Teas. *Food Anal Methods* 5, 530–539. <https://doi.org/10.1007/s12161-011-9278-1>
- Mamangkey, J., Mendes, L.W., Harahap, A., Briggs, D., Kayacilar, C., 2022. Endophytic Bacteria and Fungi from Indonesian Medicinal Plants with Antibacterial, Pathogenic Antifungal and Extracellular Enzymes Activities: A Review. *International Journal of Science* 3, 245–255.
- Martin, K.J., Rygielwicz, P.T., 2005. Fungal-specific PCR primers developed for analysis of the ITS region of environmental DNA extracts. *BMC Microbiol* 5. <https://doi.org/10.1186/1471-2180-5-28>
- McKinnon, A.C., 2016. Plant Tissue Preparation for the Detection of an Endophytic Fungus In Planta, in: Glare Travis R. and Moran-Diez, M.E. (Ed.), *Microbial-Based Biopesticides: Methods and Protocols*. Springer New York, New York, NY, pp. 167–173. https://doi.org/10.1007/978-1-4939-6367-6_13
- Mishra, V.K., Passari, A.K., Leo, V.V., Singh, B.P., 2017. Molecular Diversity and Detection of Endophytic Fungi Based on Their Antimicrobial Biosynthetic Genes, in: Singh, B.P., Gupta, V.K. (Eds.), *Molecular Markers in Mycology: Diagnostics and Marker Developments*. Springer International Publishing, Cham, pp. 1–35. https://doi.org/10.1007/978-3-319-34106-4_1
- Murdiyah, S., 2017. Endophytic Fungi of Various Medicinal Plants Collected From Evergreen Forest Baluran National Park and Its Potential as Laboratory Manual for *Jurnal Pendidikan Biologi Indonesia* 3, 64–71.
- B., Bawadikji, A.A., Lim, J.W., Tong, W.Y., Leong, C.R., Khaw, 22. Recent Developments in Metabolomics Studies of Endophytic Fungi. <https://doi.org/10.3390/jof8010028>
- P., Segun, P.A., 2019. Medicinal mushrooms with methicillin *Staphylococcus aureus* (MRSA) inhibitory activity. *Journal of Pharmacy & Biotechnology* 1. <https://doi.org/10.4314/jpb.v16i1.5>



- Oktalia, G., Chrystomo, L.Y., Karim, A.K., 2017. Uji Aktivitas Sitotoksik dan Analisis Fitokimia Ekstrak Etanol Daun Sampare (*Glochidion* sp.). *Jurnal Biologi Papua* 9, 49–54.
- Ouchari, L., Boukeskase, A., Bouizgarne, B., Ouhdouch, Y., 2019. Antimicrobial potential of actinomycetes isolated from the unexplored hot Merzouga desert and their taxonomic diversity. *Biol Open* 8. <https://doi.org/10.1242/bio.035410>
- Pękal, A., Pyrzynska, K., 2014. Evaluation of Aluminium Complexation Reaction for Flavonoid Content Assay. *Food Anal Methods* 7, 1776–1782. <https://doi.org/10.1007/s12161-014-9814-x>
- Prabu, S.L., Suriya Prakash, T.N.K., Thirumurugan, R., 2015. Cleaning Validation and Its Regulatory Aspects in the Pharmaceutical Industry, in: *Developments in Surface Contamination and Cleaning*. Elsevier, pp. 129–186. <https://doi.org/10.1016/B978-0-323-31303-2.00005-4>
- Pyka, A., 2014. Detection progress of selected drugs in TLC. *Biomed Res Int* 2014, 732078. <https://doi.org/10.1155/2014/732078>
- Qin, Z., Liu, H.-M., Ma, Y.-X., Wang, X.-D., 2021. Developments in extraction, purification, and structural elucidation of proanthocyanidins (2000–2019). pp. 347–391. <https://doi.org/10.1016/B978-0-12-819485-0.00008-6>
- Rianto, A., Isrul, M., Anggarini, S., Saleh, A., 2018. Isolasi Dan Identifikasi Fungi Endofit Daun Jambu Mete (*Anacardium occidentale* L.) Sebagai Antibakteri Terhadap *Salmonella typhimurium*. *Jurnal Mandala Pharmacon Indonesia* 4.
- Rohde, M., 2024. Chapter 3 - Bacterial ultrastructure, in: Tang, Y.-W., Hindiyeh, M.Y., Liu, D., Sails, A., Spearman, P., Zhang, J.-R. (Eds.), *Molecular Medical Microbiology* (Third Edition). Academic Press, pp. 23–43. <https://doi.org/https://doi.org/10.1016/B978-0-12-818619-0.00163-5>
- Sahu, P.K., Tilgam, J., Mishra, S., Hamid, S., Gupta, A., Jayalakshmi, K., Verma, S.K., Kharwar, R.N., 2022a. Surface sterilization for isolation of endophytes: Ensuring what (not) to grow. *J Basic Microbiol* 62, 647–668. <https://doi.org/10.1002/JOBM.202100462>
- Sahu, P.K., Tilgam, J., Mishra, S., Hamid, S., Gupta, A., K., J., Verma, S.K., Kharwar, R.N., 2022b. Surface sterilization for isolation of endophytes: Ensuring what (not) to grow. *J Basic Microbiol* 62, 647–668. <https://doi.org/10.1002/jobm.202100462>
- Schoch, C.L., Seifert, K.A., Huhndorf, S., Robert, V., Spouge, J.L., Levesque, C.A., Chen, W., Bolchacova, E., Voigt, K., Crous, P.W., Miller, A.N., Wingfield, M.J., Aime, M.C., An, K.D., Bai, F.Y., Barreto, R.W., Begerow, D., Bergeron, M.J., Blackwell, M., Boekhout, T., Bogale, M., Boonyuen, N., Burgaz, A.R., Buyck, B., Cai, L., Cai, Q., Cardinali, G., Chaverri, P., Coppins, B.J., Crespo, A., Cubas, P., Cummings, C., Damm, U., de Beer, Z.W., de Hoog, G.S., Del-Prado, R., Dentinger, B., Diéguez-Uribeondo, J., Divakar, P.K., Douglas, B., Dueñas, M., Duong, T.A., Eberhardt, U., Edwards, J.E., Elshahed, M.S., Fliegerova, K., Furtado, M., García, M.A., Ge, Z.W., Griffith, G.W., Griffiths, K., Groenewald, J.Z., Groenewald, M., Grube, M., Gryzenhout, M., Guo, L.D., Hagen, F., Hambleton, S., Hamelin, R.C., Hansen, K., Harrold, P., Heller, G., Herrera, C., Hirayama, K., Hirooka, Y., Ho, H.M., Hoffmann, K., Hofstetter, V., Högnabba, F., Hollingsworth, P.M., Hong, S.B., Hosaka, K., Jhes, K., Huhtinen, S., Hyde, K.D., James, T., Johnson, E.M., Johnston, P.R., Jones, E.B.G., Kelly, L.J., Kirk, P.M., Knapp, D.G., Krieger, G.M., Kurtzman, C.P., Landvik, S., Leavitt, S.D., Liggenstoffer, C., Lombard, L., Luangsa-ard, J.J., Lumbsch, H.T., Maganti, H., Mira, S.S.N., Martin, M.P., May, T.W., McTaggart, A.R., Methven, J., Moncalvo, J.M., Mongkolsamrit, S., Nagy, L.G., Nilsson, R.H., Oishi, I., Okada, G., Okane, I., Olariaga, I., Otte, J., Papp, T., Park,



- D., Petkovits, T., Pino-Bodas, R., Quaedvlieg, W., Raja, H.A., Redecker, D., Rintoul, T.L., Ruibal, C., Sarmiento-Ramírez, J.M., Schmitt, I., Schüßler, A., Shearer, C., Sotome, K., Stefani, F.O.P., Stenroos, S., Stielow, B., Stockinger, H., Suetrong, S., Suh, S.O., Sung, G.H., Suzuki, M., Tanaka, K., Tedersoo, L., Telleria, M.T., Tretter, E., Untereiner, W.A., Urbina, H., Vágvölgyi, C., Vialle, A., Vu, T.D., Walther, G., Wang, Q.M., Wang, Y., Weir, B.S., Weiß, M., White, M.M., Xu, J., Yahr, R., Yang, Z.L., Yurkov, A., Zamora, J.C., Zhang, N., Zhuang, W.Y., Schindel, D., 2012. Nuclear ribosomal internal transcribed spacer (ITS) region as a universal DNA barcode marker for Fungi. *Proc Natl Acad Sci U S A* 109, 6241–6246. <https://doi.org/10.1073/pnas.1117018109>
- Singh, P., Sharma, A., Bordoloi, M., Nandi, S.P., 2020. Molecular identification of endophytic fungi isolated from medicinal plant. *Biointerface Res Appl Chem* 10, 6436–6443. <https://doi.org/10.33263/BRIAC105.64366443>
- Singh, V.K., Kumar, A., 2023. Secondary metabolites from endophytic fungi: Production, methods of analysis, and diverse pharmaceutical potential. *Symbiosis* 1–15. <https://doi.org/10.1007/s13199-023-00925-9>
- Soković, M., Glamočlija, J., Ćirić, A., Petrović, J., Stojković, D., 2018. Mushrooms as Sources of Therapeutic Foods, in: *Therapeutic Foods*. Elsevier, pp. 141–178. <https://doi.org/10.1016/b978-0-12-811517-6.00005-2>
- Vallavan, V., Krishnasamy, G., Zin, N.M., Latif, M.A., Kebangsaan Malaysia, U., Raja, J., Aziz, M.A., 2020. A Review on Antistaphylococcal Secondary Metabolites from Basidiomycetes. *Molecules* 2020, Vol. 25, Page 5848 25, 5848. <https://doi.org/10.3390/MOLECULES25245848>

