

DAFTAR PUSTAKA

- Ambarwati, Azizah, T., Sembiring, L., & Wahyuono, S. (2012). Uji Aktivitas Antifungi Isolat *Actinomyces* Yang Berasosiasi Dengan Rizosfer Padi. *Jurnal Kesehatan*, 5(2).
- Aminnullah, A., Bahar, M., Muktamiroh, H., & Sandra, O. (2020). Effectiveness of *Actinomyces* Isolates from Bogor Botanical Gardens Land as Antifungal against *Candida albicans* Growth in Vitro. *BIOEDUSCIENCE: Jurnal Pendidikan Biologi Dan Sains*, 4(1), 90–96. <https://doi.org/10.29405/j.bes/4190-964362>
- Andrianto, D., Puspita, P. J., Purwanto, U. M. S., Prastiwi, D. O., Hermita, S., Subositi, D., & Maruzy, A. (2021). Genetic Variability of *Graptophyllum pictum* (L.) Griff Accessions from Western Indonesia by Sequence-Related Amplified Polymorphism. *Biology and Life Sciences Forum*. <https://doi.org/10.3390/bdee2021-09449>
- Bahriul, P., Rahman, N., & Diah, A. W. M. (2014). Uji Aktivitas Antioksidan Ekstrak Daun Salam (*Syzygium polyanthum*) Dengan Menggunakan 1,1-Difenil-2-Pikrilhidrazil. *Jurnal Akademika Kimia*, 3(3).
- Barka, E. A., Vatsa, P., Sanchez, L., Gaveau-Vaillant, N., Jacquard, C., Klenk, H.-P., Clément, C., Ouhdouch, Y., & van Wezel, G. P. (2016). Taxonomy, Physiology, and Natural Products of Actinobacteria. *Microbiology and Molecular Biology Reviews*, 80(1). <https://doi.org/10.1128/membr.00019-15>
- Beta,), Sekti, H., Gadis, R., Nurfitriani,), Sains, I. T., Rs, K., Kesdam, S., & Malang, B. (2022). Antioxidant Activity of Purple Leaf Extract (*Graptophyllum pictum* L. Griff) using the DPPH Method (1,1-Diphenyl-2-picrylhydrazyl). In *Jurnal Insan Cendekia* (Vol. 9, Issue 2).
- Camaioni, L., Ustyanowski, B., Buisine, M., Lambert, D., Sendid, B., Billamboz, M., & Jawhara, S. (2023). Natural Compounds with Antifungal Properties against *Candida albicans* and Identification of Hinokitiol as a Promising Antifungal Drug. *Antibiotics*, 12(11). <https://doi.org/10.3390/antibiotics12111603>
- Carreira-Casais, A., Otero, P., Garcia-Perez, P., Garcia-Oliveira, P., Pereira, A. G., Carpena, M., Soria-Lopez, A., Simal-Gandara, J., & Prieto, M. A. (2021). Benefits and drawbacks of ultrasound-assisted extraction for the recovery of bioactive compounds from marine algae. *International Journal of Environmental Research and Public Health*, 18(17). <https://doi.org/10.3390/ijerph18179153>
- Crawford, A. C., Lehtovirta-Morley, L. E., Alamir, O., Niemiec, M. J., Alawfi, B., Alsarraf, M., Skrahina, V., Costa, A. C. B. P., Anderson, A., Yellagunda, S., Ballou, E. R., Hube, B., Urban, C. F., & Wilson, D. (2018). Biphasic zinc compartmentalisation in a human fungal pathogen. *PLoS Pathogens*, 14(5). <https://doi.org/10.1371/journal.ppat.1007013>
- Czajka, K. M., Venkataraman, K., Brabant-Kirwan, D., Santi, S. A., Verschoor, C., Appanna, V. D., Singh, R., Saunders, D. P., & Tharmalingam, S. (2023). Molecular Mechanisms Associated with Antifungal Resistance in Pathogenic

Candida Species. In *Cells* (Vol. 12, Issue 22).
<https://doi.org/10.3390/cells12222655>

- David, H., Vasudevan, S., & Solomon, A. P. (2024). Mitigating candidiasis with acarbose by targeting *Candida albicans* α -glucosidase: in-silico, in-vitro and transcriptomic approaches. *Scientific Reports*, *14*(1), 11890.
<https://doi.org/10.1038/s41598-024-62684-x>
- Dhywinanda, D. E., Dien, S. N., Chairuly, H. D., Sakti, G. R., Tandira, R. J. R. F., Kartikasari, N., Mundiratri, K., Sitalaksmi, R. M., & Aljunaid, M. A. Q. S. (2023). Essential of *Graptophyllum pictum* for the medical and dental purposes. *Indonesian Journal of Dental Medicine*, *6*(2), 83–88.
<https://doi.org/10.20473/ijdm.v6i2.2023.83-88>
- Dianty, R., Ardiningsih, P., Buchary, ;, & Rahman, A. (2022). Antimicrobial Activity Of *Actinomyces* Extract From Sea Water Of Randayan Island, Bengkayang Againts *Salmonella* sp. *Jurnal Mahasiswa PSPD FK Universitas Tanjungpura* , *3*(1), 1–13.
- Dzah, C. S., & Dzigbor, A. (2023). Ultrasound assisted extraction: A relook at solvent to material ratio, its effects on process efficiency and how it can be exploited for different uses. In *Journal of Food Process Engineering* (Vol. 46, Issue 7).
<https://doi.org/10.1111/jfpe.14339>
- Gray, K. C., Palacios, D. S., Dailey, I., Endo, M. M., Uno, B. E., Wilcock, B. C., & Burke, M. D. (2012). Amphotericin primarily kills yeast by simply binding ergosterol. *Proceedings of the National Academy of Sciences of the United States of America*, *109*(7). <https://doi.org/10.1073/pnas.1117280109>
- Hersila, N., Moralita, C., Vauzia, & Irdawati. (2023). Senyawa Metabolit Sekunder (Tanin) pada Tanaman sebagai Antifungi. *Jurnal Embrio*, *15*(1).
<https://doi.org/10.31317/embrio.v15i1.882>
- Ishtiyak, P., & Hussain, S. A. (2017). Traditional use of medicinal plants among tribal communities of Bangus Valley, Kashmir Himalaya, India. *Studies on Ethno-Medicine*, *11*(4). <https://doi.org/10.1080/09735070.2017.1335123>
- Kaur, R., & Arora, S. (2015). Alkaloids- Important Therapeutic Secondary Metabolites Of Plant Origin. *Journal of Critical Reviews*, *2*(3).
- Kristina, C., Yusasrini, N., & Yusa, N. (2022). Pengaruh Waktu Ekstraksi Dengan Menggunakan Metode Ultrasonic Assisted Extraction (UAE) Terhadap Aktivitas Antioksidan Ekstrak Daun Duwet (*Syzygium cumini*). *Jurnal Ilmu Dan Teknologi Pangan*, *11*(1), 13–21.
- Kumala, T., Jayuska, A., & Ardiningsih, P. (2015). Uji Aktivitas Antibakteri Isolat *Actinomyces 9isp1* Dari Spons Asal Perairan Pulau Randayan. *4*(2), 30–36.
- Kurniawati, A. (2019). Pengaruh ekstrak etanol daun ungu (EEDU) *Graptophyllum pictum* L. Griff terhadap aktivitas fagositosis monosit yang dipapar *Candida albicans*. *DENTA*, *12*(2). <https://doi.org/10.30649/denta.v12i2.161>

- Kurniawati, A., -, S., & Rahmah, A. N. (2023). Peran Ekstrak Daun Wungu (*Graptophyllum Pictum* L. Griff) Terhadap Adhesi *Streptococcus Mutans* Pada Neutrofil. *Cakradonya Dental Journal*, 11(2). <https://doi.org/10.24815/cdj.v11i2.16156>
- Li, Q., Chen, X., Jiang, Y., & Jiang, C. (2016). Morphological Identification of Actinobacteria. In *Actinobacteria - Basics and Biotechnological Applications*. <https://doi.org/10.5772/61461>
- Lopes, J. P., & Lionakis, M. S. (2022). Pathogenesis and virulence of *Candida albicans*. In *Virulence* (Vol. 13, Issue 1, pp. 89–121). Taylor and Francis Ltd. <https://doi.org/10.1080/21505594.2021.2019950>
- Lu, S. Y. (2021). Oral candidosis: Pathophysiology and best practice for diagnosis, classification, and successful management. In *Journal of Fungi* (Vol. 7, Issue 7). <https://doi.org/10.3390/jof7070555>
- Marbun, R. A. T. (2020). Uji Aktivitas Ekstrak Daun Pirdot (*Saurauia vulcani* Korth.) Terhadap Pertumbuhan *Candida albicans* Secara In Vitro. *JURNAL BIOS LOGOS*, 11(1), 1. <https://doi.org/10.35799/jbl.11.1.2021.30564>
- Mayer, F. L., Wilson, D., & Hube, B. (2013). *Candida albicans* pathogenicity mechanisms. In *Virulence* (Vol. 4, Issue 2). <https://doi.org/10.4161/viru.22913>
- Metiefeng, N. T., Tamfu, A. N., Fotsing Tagatsing, M., Tabopda, T. K., Kucukaydin, S., Noah Mbane, M., de Theodore Atchade, A., Talla, E., Henoumont, C., Laurent, S., Anouar, E. H., & Dinica, R. M. (2023). In Vitro and In Silico Evaluation of Anticholinesterase and Antidiabetic Effects of Furanolabdanes and Other Constituents from *Graptophyllum pictum* (Linn.) Griffith. *Molecules*, 28(12). <https://doi.org/10.3390/molecules28124802>
- Meylani, V. (2021). *Menelisik Candida Albican : Molekular Dan Morfologi* (H. Zakariya, Ed.). CV. Media Sarana Sejahtera .
- Mutiawati, V. K. (2016). Pemeriksaan Mikrobiologi Pada *Candida Albicans*. *Jurnal Kedokteran Syiah Kuala*, 16(1).
- Ngamcharungchit, C., Chaimusik, N., Panbangred, W., Euanorasetr, J., & Intra, B. (2023). Bioactive Metabolites from Terrestrial and Marine *Actinomycetes*. In *Molecules* (Vol. 28, Issue 15). <https://doi.org/10.3390/molecules28155915>
- Ohnishi, Y., Ishikawa, J., Hara, H., Suzuki, H., Ikenoya, M., Ikeda, H., Yamashita, A., Hattori, M., & Horinouchi, S. (2008). Genome sequence of the streptomycin-producing microorganism *Streptomyces griseus* IFO 13350. *Journal of Bacteriology*, 190(11), 4050–4060. <https://doi.org/10.1128/JB.00204-08>
- Patrick Murray Michal Pfaller, K. R. (2016). Medical Microbiology Murray. In *8th Edition* (Issue Chapter 18).

- Priyanto, J. A., Prastya, M. E., Minarti, M., & Permatasari, V. (2023). Pharmaceutical Properties and Phytochemical Profile of Extract Derived from Purple Leaf (*Graptophyllum pictum* (L.) Griff. *Turkish Journal of Pharmaceutical Sciences*, 0(0), 0–0. <https://doi.org/10.4274/tjps.galenos.2023.95690>
- Prudence, S. M. M., Addington, E., Castaño-Espriu, L., Mark, D. R., Pintor-Escobar, L., Russell, A. H., & McLean, T. C. (2020). Advances in actinomycete research: An actinobase review of 2019. In *Microbiology (United Kingdom)* (Vol. 166, Issue 8, pp. 683–694). Microbiology Society. <https://doi.org/10.1099/mic.0.000944>
- Puspitasari, A., Kawilarang, A. P., Ervianti, E., & Rohiman, A. (2019). Profil Pasien Baru Kandidiasis. *Berkala Ilmu Kesehatan Kulit Dan Kelamin*, 31(1).
- Putri, R., Minarni, Epinur, Kuncora, B., Sudrajat, R., & Yusransyah. (2022). Aktivitas Antijamur Ekstrak Daun Nangka (*Artocarpus heterophyllus* Lam.) Terhadap Pertumbuhan *Candida albicans*. *Biology Education Science & Technology*, 5(1).
- Qiu, S., Sun, H., Zhang, A. H., Xu, H. Y., Yan, G. L., Han, Y., & Wang, X. J. (2014). Natural alkaloids: Basic aspects, biological roles, and future perspectives. *Chinese Journal of Natural Medicines*, 12(6). [https://doi.org/10.1016/S1875-5364\(14\)60063-7](https://doi.org/10.1016/S1875-5364(14)60063-7)
- Ramadhan, G., Hanafi, P., & Sulistiorini, R. (2017). Perbandingan Daya Hambat Flukonazol Dengan Mikonazol Terhadap Jamur *Candida Albicans* Secara In Vitro. *Jurnal Kedokteran, September*.
- Ramonah, D., & Dwi Pratiwi, A. (2022). Uji Aktivitas Antijamur Sediaan Obat Kumur Ekstrak Daun Srikaya (*Annona Squamosa* L.) Terhadap Pertumbuhan *Candida Albicans*. *Media Farmasi Indonesia*, 17(2). <https://doi.org/10.53359/mfi.v17i2.201>
- Reich, E., & Goldberg, I. H. (2014). Actinomycin and Nucleic Acid Function. *Progress in Nucleic Acid Research and Molecular Biology*, 3(C). [https://doi.org/10.1016/S0079-6603\(08\)60742-4](https://doi.org/10.1016/S0079-6603(08)60742-4)
- Resti Ayu Indriana, Pudji Astuti, & Atik Kurniawati. (2017). Uji Daya Hambat Ekstrak Metanol Daun Ungu (*Graptophyllum pictum* (L.) Griff) terhadap Pertumbuhan Bakteri Saluran Akar Gigi. *E-Journal Pustaka Kesehatan*, 5(1).
- Rohmatika, Arini, & Putri. (2019). Aktivitas Antifungi Ekstrak Etanol 70% Daun Teh-Tehan (*Acalypha siamensis*) Terhadap *Candida albicans*. *Angewandte Chemie International Edition*, 6(11), 951–952.
- Rosarina, D., Narawangsa, D. R., Chandra, N. S. R., Sari, E., & Hermansyah, H. (2022). Optimization of Ultrasonic—Assisted Extraction (UAE) Method Using Natural Deep Eutectic Solvent (NADES) to Increase Curcuminoid Yield from *Curcuma longa* L., *Curcuma xanthorrhiza*, and *Curcuma mangga* Val. *Molecules*, 27(18). <https://doi.org/10.3390/molecules27186080>

- Ruzana. (2017). Uji Daya Hambat Antibakteri Ekstrak Daun Ungu (*Graptophyllum pictum* (L.) Griff.) Terhadap Pertumbuhan Bakteri *Staphylococcus aureus* Sebagai Bahan Pengayaan Praktikum Mikrobiologi. *Artikel Ilmiah Pendidikan Perguruan Dan Ilmu Pendidikan Universitas Jambi*, July.
- Safitri, A. N., & Qurrohman, M. T. (2022). *Perbandingan Pertumbuhan Jamur Candida Albicans Pada Media Alami Jagung, Singkong Dan Ubi Jalar Kuning*.
- Santos, G. C. de O., Vasconcelos, C. C., Lopes, A. J. O., Cartágenes, M. do S. de S., Filho, A. K. D. B., do Nascimento, F. R. F., Ramos, R. M., Pires, E. R. R. B., de Andrade, M. S., Rocha, F. M. G., & Monteiro, C. de A. (2018). *Candida infections and therapeutic strategies: Mechanisms of action for traditional and alternative agents*. In *Frontiers in Microbiology* (Vol. 9, Issue JUL). <https://doi.org/10.3389/fmicb.2018.01351>
- Sartika, S., & Indradi, R. B. (2021). Pharmacological Activities of Daun Ungu Plants (*Graptophyllum pictum* L. Griff). *Indonesian Journal of Biological Pharmacy*, 1(2).
- Selim, M. S. M., Abdelhamid, S. A., & Mohamed, S. S. (2021). Secondary metabolites and biodiversity of *Actinomycetes*. In *Journal of Genetic Engineering and Biotechnology* (Vol. 19, Issue 1). <https://doi.org/10.1186/s43141-021-00156-9>
- Shen, L., Pang, S., Zhong, M., Sun, Y., Qayum, A., Liu, Y., Rashid, A., Xu, B., Liang, Q., Ma, H., & Ren, X. (2023). A comprehensive review of ultrasonic assisted extraction (UAE) for bioactive components: Principles, advantages, equipment, and combined technologies. In *Ultrasonics Sonochemistry* (Vol. 101). <https://doi.org/10.1016/j.ultsonch.2023.106646>
- Singh, P., Khosa, R., Mishra, G., & Jha, K. (2015). Pharmacognostical evaluation of aerial parts of *Graptophyllum pictum* (L.) Griff. (Syn: *Justicia picta* Linn.): A well-known folklore medicinal plant. *Ancient Science of Life*, 34(4). <https://doi.org/10.4103/0257-7941.160868>
- Sophia, A., Suraini, & Yogica, R. (2021). Comparison of effectiveness of red beans (*Phaseolus vulgaris* L.) and candlenut (*Aleurites moluccana* (L.) Willd) as a replacement for media sabouraud dextrose agar for *Candida albicans* growth. *Journal of Physics: Conference Series*, 1940(1). <https://doi.org/10.1088/1742-6596/1940/1/012068>
- Syahir, A., Sulaiman, S., Mel, M., Othman, M., & Zubaidah Sulaiman, S. (2020). An Overview: Analysis of ultrasonic-assisted extraction's parameters and its process. *IOP Conference Series: Materials Science and Engineering*, 778(1). <https://doi.org/10.1088/1757-899X/778/1/012165>
- Syahrurachman, A., Miriam, T., Chatim, A., Asmono, N., Karuniawati, A., Suharto, & Hutabarat, T. (2010). *BUKU AJAR Mikrobiologi* (Staf Pengajar Bagian Mikrobiologi, Ed.; Revisi). dr. Lyndon Saputra.

- Tagousop, C. N., Tamokou, J. de D., Kengne, I. C., Ngnokam, D., & Voutquenne-Nazabadioko, L. (2018). Antimicrobial activities of saponins from *Melanthera elliptica* and their synergistic effects with antibiotics against pathogenic phenotypes. *Chemistry Central Journal*, 12(1). <https://doi.org/10.1186/s13065-018-0466-6>
- Takahashi, Y., & Nakashima, T. (2018). *Actinomycetes*, an inexhaustible source of naturally occurring antibiotics. In *Antibiotics* (Vol. 7, Issue 2). <https://doi.org/10.3390/antibiotics7020045>
- Takeuchi, S., Hirayama, K., Ueda, K., Sakai, H., & Yonehara, H. (2012). Blastocidin S, a new antibiotic. *The Journal of Antibiotics*, 11(1).
- Talapko, J., Juzbašić, M., Matijević, T., Pustijanac, E., Bekić, S., Kotris, I., & Škrlec, I. (2021). *Candida albicans*-the virulence factors and clinical manifestations of infection. *Journal of Fungi*, 7(2). <https://doi.org/10.3390/jof7020079>
- Wahyuningtyas, E. (2008). Pengaruh Ekstrak *Graptophyllum Pictum* Terhadap Pertumbuhan *Candida Albicans* Pada Plat Gigi Tiruan Resin Akrilik. *Journal of Dentistry*, 15(3), 187–191. <http://www.fkg.ui.edu>
- Waksman, S. A., Lechevalier, H. A., & Schaffner, C. P. (2015). Candicidin and other polyenic antifungal antibiotics. In *Bulletin of the World Health Organization* (Vol. 33, Issue 2).
- Westman, J., Moran, G., Mogavero, S., Hube, B., & Grinstein, S. (2018). *Candida albicans* hyphal expansion causes phagosomal membrane damage and luminal alkalinization. *MBio*, 9(5). <https://doi.org/10.1128/mBio.01226-18>
- Yasintha, A., & Makkiyah, F. (2022). Aktivitas Antioksidan dan Antiinflamasi pada Daun Ungu (*Graptophyllum pictum*). *Sosial Dan Humaniora*. <https://doi.org/10.37817/ikraith-humaniora.v8i1>
- Zandavar, H., & Afshari Babazad, M. (2023). Secondary Metabolites: Alkaloids and Flavonoids in Medicinal Plants. In *Herbs and Spices - New Advances*. <https://doi.org/10.5772/intechopen.108030>