

DAFTAR PUSTAKA

1. Naldi Y, Aisah IS. Perbandingan efektivitas lengkuas merah (*Alpinia purpurata* K Schum) dan lengkuas putih (*Alpinia galanga*) terhadap pertumbuhan jamur *Candida albicans* secara In Vitro. Tunas Med J Kedokt Kesehat. 2014;1(4):1–6.
2. Yuliani N, Syawaalz A, Lisna M. Ekstraksi dan identifikasi pendahuluan golongan senyawa fenol dari rimpang lengkuas merah (*Alpinia purpurata* (Viell) K. Schum). J Sains Nat. 2017;1(2):111.
3. Vankar PS, Tiwari V, Singh LW, Swapana N. Antioxidant properties of some exclusive species of Zingiberaceae family of Manipur. Electron J some Exclus species Zingiberaceae Fam Manipur. 2006;5(2):1318–22.
4. Lestari RP, Tandelilin RT, Handajani J. Efektivitas minyak atsiri lengkuas putih (*Alpinia galanga*) terhadap pertumbuhan *staphylococcus aureus* yang resisten multiantibiotik. IJD. 2005;12(1):24–9.
5. Raina VK, Srivastava SK, Syamasunder K V. The essential oil of “greater galangal” [*Alpinia galanga* (L.) Willd.] from the lower Himalayan region of India. Flavour Fragr J. 2002;17(5):358–60.
6. Untoro M, Fachriyah E, Kusrini D. Jurnal Kimia Sains dan Aplikasi Isolasi dan Identifikasi Senyawa Golongan Alkaloid dari Rimpang Lengkuas Merah (*Alpinia purpurata*). 2016;19(2):58–62.
7. Hamad A, Alifah A, Permadi A, Hartanti D. Chemical constituents and antibacterial activities of crude extract and essential oils of *Alpinia galanga* and *Zingiber officinale*. Int Food Res J. 2016;23(2):837–41.
8. Rialita, Tita; Rahayu, Winiati Pudji; Nuraida, Lilis; Nurtama B. AKTIVITAS ANTIMIKROBA MINYAK ESENSIAL JAHE MERAH (*Zingiber officinale* var. *Rubrum*) DAN LENGKUAS MERAH (*Alpinia purpurata* K. Schum) TERHADAP BAKTERI PATOGEN DAN PERUSAK PANGAN. Agritech. 2015;35(1):43–52.
9. Sitti Rahbiah Akram, Dirayah Rauf Husain AA. Bioaktivitas Minyak Atsiri Rimpang Lengkuas Merah *Alpinia purpurata* K. Schum, Terhadap Pertumbuhan Bakteri *Staphylococcus aureus* dan *Escherichia coli*. Hasanuddin Univ Repos. 2015;5(December):118–38.
10. Prakatthagomol W, Klayraung S, Okonogi S. Bactericidal action of *Alpinia galanga* essential oil on food-borne bacteria. Drug Discov Ther. 2011;5(2):84–9.
11. Wannissorn, B., Maneesin, P., Tubtimtes S dan, Wangchanachai. Antimicrobial

- activity of essential oils extracted from Thai herbs and spices. *Asian J Food Agro-Industry.* 2009;2:677–89.
12. Burt S. Essential oils: Their antibacterial properties and potential applications in foods - A review. *Int J Food Microbiol.* 2004;94(3):223–53.
 13. Scheffer JJ., Jansen PC. *Alpinia galanga* (L) Willd. In: Guzman, C C And Siemonsma, J S (eds) *Plant Resources of south-east asia no 13, spices.* Leiden, Netherland: Backhyus; 1999. hal. 65–8.
 14. Arambewela L, Wijesinghe A. *Srilankan Medicinal Plant Monographs and Analysis, Alpinia galanga.* Ind Technol Inst Natl Sci Found. 2006;10.
 15. Intan P D, Atmi A D, Febrianti Y. Variasi morfologi dan anatomi lengkuas (*Alpinia galanga*) berdasarkan perbedaan ketinggian tempat sebagai booklet dalam mata kuliah morfologi dan anatomi tumbuhan. *STKIP-PGRI Lubuklinggau.* 2008;1(1):1–16.
 16. Al-snafi AE. The Pharmacological Activities of *Alpinia galangal* - A Review. *Int J Pharm Res Sch.* 2014;V–3, I–1(2277–7873):607–14.
 17. Tjitosoepomo G. *Morfologi Tumbuhan.* Yogyakarta: Gadjah Mada University Press; 1994.
 18. Victório CP, Kuster RM, Lage CLS. Detection of flavonoids in *Alpinia purpurata* (Vieill.) K. Schum. leaves using highperformance liquid chromatography. *Rev Bras Plantas Med.* 2009;11(2):147–53.
 19. Itokawa K, Takeya H. Antitumor subtances from higher plants. *Heterocytes.* 1993;1467–1501.
 20. Hembing HM, Wijayakusuma. *Tumbuhan Berkhasiat Obat Indonesia: Rempah, Rimpang dan Umbi.* Jakarta: Milenia Populer; 2001.
 21. Santos GKN, Dutra KA, Barros RA, da Câmara CAG, Lira DD, Gusmão NB, et al. Essential oils from *Alpinia purpurata* (Zingiberaceae): Chemical composition, oviposition deterrence, larvicidal and antibacterial activity. *Ind Crops Prod [Internet].* 2012;40(1):254–60. Tersedia pada: <http://dx.doi.org/10.1016/j.indcrop.2012.03.020>
 22. Bermawie N, Purwiyanti S, Melati, Meilawati. Morphological characters, yield and quality of the six galangas genotypes in three agroecological. *Bul Littro.* 2012;23(2):125–35.
 23. Anto. *Rempah-Rempah dan Minyak Atsiri.* Klaten: Lakeisha; 2020.
 24. Agusta A. *Minyak atsiri tumbuhan tropika Indonesia.* Bandung: ITB Press; 2000.

- 
25. Deng W, Liu K, Cao S, Sun J, Zhong B, Chun J. Chemical composition, antimicrobial, antioxidant, and antiproliferative properties of grapefruit essential oil prepared by molecular distillation. *Molecules*. 2020;25(1).
 26. Rusli M. Sukses memproduksi minyak atsiri. Jakarta: PT. Agro Media Pustaka; 2010.
 27. Kar A. Farmakognosi dan Farmakobioteknologi. 2 ed. Jakarta: EGC; 2013.
 28. Handa S. An Overview of Extraction Techniques for Medicinal and Aromatic Plants. In: Extraction technologies for medicinal and aromatic plants. Trieste: INTERNATIONAL CENTRE FOR SCIENCE AND HIGH TECHNOLOGY; 2008.
 29. Koensoemardiyyah. A to Z Minyak Atsiri: Untuk Industri Makanan, Kosmetik, Dan Aromaterapi. Yogyakarta: ANDI; 2010.
 30. Harmita. Analisis Fisikokimia: Kromatografi Vol 2. Jakarta: EGC; 2015.
 31. Cebi N, Taylan O, Abusurrah M, Sagdic O. Detection of orange essential oil, isopropyl myristate, and benzyl alcohol in lemon essential oil by ftir spectroscopy combined with chemometrics. *Foods*. 2021;10(1).
 32. et al. Senyawa Inhibitor A-Glukosidase Dan Antioksidan Dari Kumis Kucing Dengan Pendekatan Metabolomik Berbasis Ftir. *J Teknol dan Ind Pangan*. 2016;27(1):17–30.
 33. Pambudi A, Farid M, Nurdiansah H. Analisa Morfologi dan Spektroskopi Infra Merah Serat Bambu Betung (*Dendrocalamus Asper*) Hasil Proses Alkalisasi Sebagai Penguat Komposit Absorbsi Suara. *J Tek ITS*. 2017;6(2):441–4.
 34. Xia E, Deng G, Guo Y, Li H. Biological Activities of Polyphenols from Grapes. *Int J Mol Sci*. 2010;11:622–46.
 35. Waluyo L. Mikrobiologi Umum. Malang: UMM Press; 2004.
 36. Radji M. Mekanisme Aksi Molekuler Antibiotik dan Kemoterapi. Jakarta: Penerbit Buku Kedokteran EGC; 2016. 2–7 hal.
 37. Menkes RI. Permenkes RI No.2406/MENKES/PER/XII/2011 Tentang Pedoman Umum Penggunaan Antibiotik. Jakarta; 2011. 1–63 hal.
 38. Maksum Radji MB. Mekanisme Aksi Molekuler Antibiotik dan Kemoterapi. Nirwanto R, Afifah hafshah nurul, editor. Jakarta: EGC; 2015.
 39. Rahmawati D. Dasar-Dasar Mikrobiologi untuk Mahasiswa Farmasi. Rachmawati De, editor. Yogyakarta: Pustaka Baru Press; 2019.
 40. Pratiwi S. Mikrobiologi Farmasi. Jakarta: Erlangga; 2008.

41. Radji M. Buku Ajar Mikrobiologi: Panduan Mahasiswa Farmasi & Kedokteran. Jakarta: Erlangga; 2010.
42. Hazari R, Swain K, Sharma S, Granuly S. Methicillin Resistant Staphylococcus Aureus (MRSA): An Update. Res gate. 2018;1–14.
43. Mahmuda R, Soleha T., Ekowati C. Identifikasi Methicillin-Resistant Staphylococcus Aureus (MRSA) Pada Tenaga Medis Dan Paramedis Di Ruang Intensivecare Unit (ICU) Dan Ruang Perawatan Bedah Rumah Sakit Umum Daerah Abdul Moeloek. Med J. 2013;2(4).
44. Lemos J., Palmer S., Zeng L, Wen Z., Kajfasz J., Freires I. The Biology of Streptococcus mutans. *Microbiol Spectr*. 2019;7(1).
45. D FS, M B, A.C O. Streptococcus mutans, caries and simulation models. *Nutrients*. 2010;2(3).
46. Kau AL, Martin SM, Lyon W, Hayes E, Caparon MG, Hultgren SJ. Enterococcus faecalis tropism for the kidneys in the urinary tract of C57BL/6J mice. *Infect Immun*. 2005;73(4):2461–8.
47. Nuryastuti T. *Staphylococcus epidermidis : how to turn from commensal to be a pathogen lifestyle*. J thee Med Sci (Berkala Ilmu Kedokteran). 2018;50(01):113–27.
48. Otto M. *Staphylococcus epidermidis - The “accidental” pathogen*. Nat Rev Microbiol. 2009;7(8):555–67.
49. Schaffer JN, Pearson MM. *Proteus mirabilis and urinary tract infections*. Urin Tract Infect Mol Pathog Clin Manag. 2016;383–433.
50. Wasfi R, Hamed SM, Amer MA, Fahmy LI. *Proteus mirabilis Biofilm: Development and Therapeutic Strategies*. Front Cell Infect Microbiol. 2020;10(August):1–14.
51. Guenther E. *Minyak Atsiri 1 Jilid 1*. Jakarta: Universitas Indonesia Press; 1987.
52. Stanković N, Mihajlov-Krstev T, Zlatković B, Stankov-Jovanović V, Kocić B, Čomić L. Antibacterial and antioxidant activity of wild-growing Angelica species (Apiaceae) from Balkan Peninsula against human pathogenic bacteria: ‘in honor of famous natural historian Dr Josif Pančić (1814–1888).’ *J Essent Oil Res* [Internet]. 2020;00(00):464–73. Tersedia pada: <https://doi.org/10.1080/10412905.2020.1787883>
53. Appiah T, Boakye YD, Agyare C. Antimicrobial Activities and Time-Kill Kinetics of Extracts of Selected Ghanaian Mushrooms. *Evidence-based Complement Altern Med*. 2017;2017.

54. Yuhono JT, Penelitian B, Obat T. Status Pengusahaan Minyak Atsiri Dan Faktor-Faktor Teknologi Pasca Panen Yang Menyebabkan Rendahnya Rendemen Minyak. Bul Penelit Tanam Rempah dan Obat. 2015;17(2):79–90.
55. Kristian J, Zain S, Nurjanah S, Widayanti A, Putri SH. Pengaruh lama ekstraksi terhadap rendemen dan mutu minyak bunga melati putih menggunakan metode ekstraksi pelarut menguap (solvent extraction). Teknotan. 2016;10(2):34.
56. A K. Farmakognosi dan Farmakobioteknologi Vol 1. 2 ed. Jakarta: EGC; 2014. 276 hal.
57. Ma'mun. Karakteristik Beberapa Minyak Atsiri Famili Zingiberaceae Dalam Perdagangan. Bul Penelit Tanam Rempah dan Obat. 2006;17(2):91–8.
58. Dachriyanus. Analisis Struktur Senyawa Organik Secara Spektroskopi. Padang: LPTIK Universitas Andalas; 2004.
59. Grela E, Koz J, Grabowiecka A. Current methodology of MTT assay in bacteria – A review. Acta Histochem. 2018;120(4):2.
60. Abate G, Mshana RN, Miörner H. Evaluation of a colorimetric assay based on (MTT) for rapid detection of rifampicin resistance in *Mycobacterium tuberculosis*. Int J Tuberc Lung Dis. 1998;2(12):1011–6.
61. Cai ZM, Peng JQ, Chen Y, Tao L, Zhang YY, Fu LY, et al. 1,8-Cineole: a review of source, biological activities, and application. J Asian Nat Prod Res [Internet]. 2021;23(10):938–54. Tersedia pada: <https://doi.org/10.1080/10286020.2020.1839432>
62. Violantika N, Yulian M, Nuzlia C. Perbandingan aktivitas antibakteri berbagai minyak atsiri terhadap pertumbuhan *Staphylococcus aureus*. Amina. 2020;2(1):38–49.
63. Sokovic M, Glamoclija J, Marin PD, Brkić D, Van Griensven LJLD. Antibacterial effects of the essential oils of commonly consumed medicinal herbs using an in vitro model. Molecules. 2010;15(11):7532–46.
64. Cartagena E, Montaro S, Bardon A del V. Improvement of the antibacterial activity of sesquiterpene lactones. Rev Latinoam Quim. 2008;36(2):43–51.
65. Costa R, Bisignano C, Filocamo A, Grasso E, Occhiuto F, Spadaro F. Antimicrobial activity and chemical composition of *Citrus aurantifolia* (Christm.) Swingle essential oil from Italian organic crops. J Essent Oil Res. 2014;26(6):400–8.
66. Mayachiew P, Devahastin S. Antimicrobial and antioxidant activities of Indian gooseberry and galangal extracts. LWT - Food Sci Technol. 2008;41(7):1153–9.

