

DAFTAR PUSTAKA

1. 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).
2. Satari B, Karimi K. Citrus processing wastes: Environmental impacts, recent advances, and future perspectives in total valorization. *Resour Conserv Recycl*. 2018;129:153–67.
3. Palma CE, Cruz PS, Cruz DTC, Bugayong AMS, Castillo AL. Chemical composition and cytotoxicity of Philippine calamansi essential oil. *Ind Crops Prod*. 2019;128:108–14.
4. Periyannayagam K, Dhanalakshmi S, Karthikeyan V, Magesh M. Antibacterial activity of *Citrus aurantium* leaf essential oil against *S. aureus* and MRSA. *J Drug Discov Ther*. 2014;2:54–60.
5. M.H. S, G.F. M. Evaluation of topical gel bases formulated with various essential oils for antibacterial activity against *methicillin-resistant Staphylococcus aureus*. *Trop J Pharm Res*. 2013;12(6):877–84.
6. Fisher K, Phillips C. Potential antimicrobial uses of essential oils in food: is citrus the answer? *Trends Food Sci Technol*. 2008;19(3):156–64.
7. Astarini NPF, Burhan RYP, Zetra Y. Minyak atsiri dari kulit buah citrus grandis, *Citrus aurantium* (l.) Dan *Citrus aurantifolia* (rutaceae) sebagai senyawa antibakteri dan insektisida. *Pros skripsi*. 2010;
8. Raspo MA, Vignola MB, Andreatta AE, Juliani HR. Antioxidant and antimicrobial activities of citrus essential oils from Argentina and the United States. *Food Biosci*. 2020;36:100651.
9. Singh B, Singh JP, Kaur A, Singh N. Phenolic composition, antioxidant potential and health benefits of citrus peel. *Food Res Int*. 2020;132:109114.
10. Gómez-mejía E, Rosales-conrado N, León-gonzález ME, Madrid Y. Citrus peels

waste as a source of value-added compounds : Extraction and quantification of bioactive polyphenols. *Food Chem.* 2019;295:289–99.

11. Jugreet BS, Suroowan S, Rengasamy RRK, Mahomoodally MF. Chemistry, bioactivities, mode of action and industrial applications of essential oils. *Trends Food Sci Technol.* 2020;101:89–105.
12. Putri nisrina rahmi. Analisis dan uji aktivitas antibakteri komponen kimia minyak atsiri dari kulit buah limau sundai (*Citrus x aurantiifolia 'sundai'*). Fakultas Farmasi Universitas Andalas; 2020.
13. Nisrin Ramadhani W. Analisis Komponen Kimia Minyak Atsiri Dari Kulit Buah Jeruk Sundai (*Citrus X aurantiifolia 'Sundai'*), Jeruk Nipis (*Citrus aurantiifolia*) Dan Jeruk Purut (*Citrus hystrix*) Serta Aktivitas Antibakterinya. fakultas farmasi Universitas Andalas; 2020.
14. Noura S. Dosoky WNS. Biological Activities and Safety of *Citrus sp.* Essential oils. USA: Molecular Sciences; 2018.
15. Irsyam ASD, Chikmawati T. Peninjauan Ulang Marga Citrus (Rutaceae) di Kawasan Madura. *Floribunda.* 2015;5(3):82–91.
16. Harummi Novita Sari, Nursyahra LM. Jenis-jenis tumbuhan obat yang digunakan masyarakat untuk pengobatan tradisional di nagari panyakalan kecamatan kubung kabupaten solok. *Progr Stud Pendidik Biol STKIP PGRI Sumatera Barat.* 2016;
17. Irwan A, Mustikasari K, Ariyani D. Pemeriksaan Pendahuluan Kimia Daun, Kulit dan Buah Limau Kuit : Jeruk Lokal Kalimantan Selatan. *Sains dan Terap Kim.* 2017;11(2):71–9.
18. Sembiring HB. Aktivitas Antibakteri dan Antioksidan Minyak Atsiri Daun Asam Jungga (*Citrus jambhiri* Lush). 2018;6(1):19–24.
19. Bayer RJ, Mabberley DJ, Morton C, Miller CH, Sharma IK, Pfeil BE, et al. A molecular phylogeny of the orange subfamily (Rutaceae: Aurantioideae) using nine cpDNA sequences. *Am J Bot.* 2009;96(3):668–85.
20. Nur S, Othman A, Hassan MA, Nahar L, Basar N, Jamil S, et al. Essential Oils from the Malaysian Citrus (Rutaceae) Medicinal Plants. *medicines.* 2016;1–11.

21. Smeriglio A, Cornara L, Denaro M, Barreca D, Burlando B, Xiao J, et al. Antioxidant and cytoprotective activities of an ancient Mediterranean citrus (*Citrus lumia* Risso) albedo extract: Microscopic observations and polyphenol characterization. *Food Chem.* 2019;279:347–55.
22. Herda Ariyani, Muhammad Nazemi, Hamidah MK. Uji efektivitas antibakteri ekstrak kulit limau kuit (*Cytrus hystrix* dc) terhadap beberapa bakteri. *Curr Pharm Sci.* 2018;2(1):136–41.
23. Book C. Chemical book [Internet]. [cited 2021 Mar 26]. Available from: https://www.chemicalbook.com/ProductIndex_EN.aspx
24. Yuliani R, Indrayudha P, Septi D, Rahmi S. Antibacterial activity of volatil oil of small aromatic lemon leaves (*citrus hystrix*) against *Staphylococcus aureus* and *Escherichia coli*. *Pharmacon.* 2011;12(2):50–4.
25. Lemes RS, Alves CCF, Estevam EBB, Santiago MB, Martins CHG, Dos Santos TCL, et al. Chemical composition and antibacterial activity of essential oils from *Citrus aurantifolia* leaves and fruit peel against oral pathogenic bacteria. *An Acad Bras Cienc.* 2018;90(2):1285–92.
26. Anton. Rempah-rempah dan Minyak Atsiri. I. Jawa Tengah: Lakeisha; 2020. 170 p.
27. Sastrohamidjojo H. Kimia Minyak Atsiri. Yogyakarta: Gadjah Mada University Press; 2014.
28. Amando R. Memproduksi 15 Jenis Minyak Atsiri Berkualitas. Depok: Penebar Swadaya; 2009.
29. Kar A. Farmkognosi dan Farmakobioteknologi. 2nd ed. Shinta Rachmawati RFR, editor. Jakarta: EGC; 2019.
30. Rusli MS. Sukses Memproduksi Minyak Atsiri. Jakarta Selatan: PT. Agro Media Pustaka; 2010.
31. Buchbauer KHCBG. Handbook of Essential Oils. Boca Raton, London, New York: CRC Press/Taylor & Francis; 2010.
32. Mayuni. Teknologi dan Analisa Minyak Atsiri. Andalas University Press; 2006.
33. Hanani E. Analisis Fitokimia. Theresia Veronica Dwinita Hadinata AH, editor.

Jakarta: EGC; 2016.

34. Agusta A. Minyak Atsiri Tumbuhan Tropika Indonesia. Bandung: ITB; 2010.
35. Koensoemardiyah. A to Z Minyak Atsiri. Yogyakarta: ANDI; 2010.
36. Javed S, Javaid A, Nawaz S, Saeed MK, Mahmood Z, Siddiqui SZ, et al. Phytochemistry, GC-MS Analysis, Antioxidant and Antimicrobial Potential of Essential Oil From Five Citrus Species. *J Agric Sci.* 2014;6(3):201–8.
37. Guenther E. Minyak Atsiri 1. Jilid 1. Universitas Indonesia; 1987.
38. Ayu Chandra K.F WDP. Analisa komposisi minyak atsiri kulit jeruk manis hasil ekstraksi metode microwave hydrodiffusion and gravity dengan gc-ms. *J Reka Buana.* 2018;3(1).
39. Julianto TS. Minyak Atsiri Bunga Indonesia. Depublish; 2012.
40. Zhang QW, Lin LG, Ye WC. Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Med (United Kingdom).* 2018;13(1):1–26.
41. Komang Ari Gunapria Darmapatni, Achmad Basori NMS. Pengembangan metode gc-ms untuk penetapan kadar acetaminophen pada spesimen rambut manusia. *J Biosains Pascasarj.* 2016;18(3).
42. Dudley H. Williams IF. Metode Spektroskopi dalam Kimia Organik. Lolita, July Manurung WRS, editor. Jakarta: EGC; 2010.
43. Roman A. Kromatografi untuk Analisis Obat. I. Yogyakarta: Graha Ilmu; 2009.
44. Harmita. Analisis Fisikokimia : Potensiometri dan Spektroskopi. Jakarta: EGC; 2009.
45. Nia R, Mia M, Oktapiana K. Antibacterial activity test of endophytic fungus from mangrove plant (*Rhizophora apiculata* l.) and (*Bruguiera gymnorizha* (l.) lamk.) against *Klebsiella pneumoniae* atcc 700603. *KnE Life Sci.* 2017;2(6):146.
46. Menkes R. PerMenKes no 2406 tentang Pedoman Umum Penggunaan Antibiotik. Jakarta: Kementerian Kesehatan RI; 2011.
47. Kusmiyati K, Agustini NWS. Uji Aktivitas Senyawa Antibakteri dari Mikroalga *Porphyridium cruentum*. *Biodiversitas.* 2007;8:48–53.

48. Rahmawati D. Mikrobiologi Farmasi. Rachmawati D, editor. Yogyakarta: Pustaka Baru Press; 2019.
49. Rahmawati D. Dasar-Dasar Mikrobiologi untuk Mahasiswa Farmasi. Rachmawati De, editor. Yogyakarta: Pustaka Baru Press; 2019.
50. Bonev B, Hooper J. Principles of assessing bacterial susceptibility to antibiotics using the agar diffusion method. *J Antimicrob Chemotherapy*. 2008;(March):1295–301.
51. Zhao W, Gao B, Liu C, Zhang B, Shan C, Deng J, et al. Research in Veterinary Science High pathogenicity island is associated with enhanced autophagy in pathogenic *Escherichia coli* HPI - infected macrophages. *Res Vet Sci*. 2021;135(December 2020):113–20.
52. Retno Widowati, Sri Handayani IL. Aktivitas Antibakteri Minyak Nilam (*Pogostemon Cablin*) Terhadap Beberapa Spesies Bakteri Uji. *J Pro Life*. 2015;6:237–49.
53. Maksum Radji MB. Buku Ajar Mikrobiologi : Panduan Mahasiswa Farmasi dan Kedokteran. Manurung J, editor. Jakarta: EGC; 2011.
54. Torabi S, Joharchi K, Kalhori KAM, Sohrabi M, Fekrazad R. Photodiagnosis and Photodynamic Therapy Evaluation of antimicrobial photodynamic therapy on wounds infected by *Staphylococcus aureus* in animal models. *Photodiagnosis Photodyn Ther*. 2021;33(May 2020):102092.
55. Verawati E, Widowati TW, Santoso B, Rusdiana S, Dewi P, Pambayun R. Microbial & Biochemical Technology Antibacterial Activity toward *Streptococcus mutans* and Antioxidant from Traditional Betel Chew Formulation of Indonesia. *J Microb Biochem Technol*. 2017;9(6):316–20.
56. Lakhundi S, Zhang K. Methicillin-Resistant *Staphylococcus aureus*: Molecular Characterization, Evolution, and Epidemiology. 2018;31(4):1–103.
57. Bontjura S, Waworuntu OA, Siagian KV. Uji Efek Antibakteri Ekstrak Daun Leilem (*Clerodendrum Minahassae* L.) Terhadap Bakteri *Streptococcus Mutans*. *Pharmacon*. 2015;4(4).
58. Chan A, Ellepola K, Truong T, Balan P, Koo H, Seneviratne CJ. Inhibitory

effects of xylitol and sorbitol on *Streptococcus mutans* and *Candida albicans* biofilms are repressed by the presence of sucrose. Arch Oral Biol. 2020;119(June):104886.

59. André CB, Rosalen PL, Giannini M, Bueno-Silva B, Pfeifer CS, Ferracane JL. Incorporation of Apigenin and tt-Farnesol into dental composites to modulate the *Streptococcus mutans* virulence. Dent Mater. 2021;30:1–12.
60. Chintaluri AK, Komarraju AL, Chintaluri VK, Vemulapalli B. Comparative study of antimicrobial activity of essential oils of selected plants of Rutaceae and TLC bioautographic studies for detection of bioactive compounds. J Essent Oil Res. 2015;27(1):9–16.
61. Balouiri M, Sadiki M, Ibsouda SK. Methods for in vitro evaluating antimicrobial activity: A review. J Pharm Anal. 2016;6(2):71–9.
62. Krisnawati Setyaningrum Nugraheni, Lia Umi Khasanah RU, Baskara, Ananditho K. Pengaruh perlakuan pendahuluan dan variasi metode destilasi terhadap karakteristik mutu minyak atsiri daun kayu manis (*C. burmanii*). 2016;IX(2).
63. Jeremia Kristian, Sudaryanto Zain, Sarifah Nurjanah, Asri Widyasanti SHP. Pengaruh lama ekstraksi terhadap rendemen dan mutu minyak bunga melati putih menggunakan metode ekstraksi pelarut menguap (solvent extraction). 2016;10(2).
64. Hakim A, Muti'ah R, Aprinda R, Suryadinata A, Nasikhatul F, Maslakhah. Metabolite Profiling Bagian Akar, Batang, Daun, Dan Biji *Helianthus annuus* L. Menggunakan UPLC-MS. Media Pharm Indones. 2018;2(2):64–81.
65. Purwanto UMS, Rispriandari AA. Perbedaan Bagian Tanaman Krokot (*Portulaca grandiflora* Hook .) terhadap Kandungan Total Fenolik dan Flavonoid serta Aktivitas Antioksidan. Curr Biochem. 2020;7(1):10–20.
66. Srisukh V, Tribuddharat C, Nukoolkarn V, Bunyaphratharsara N, Choekphaibulkit K, Phoomniyom S, et al. Antibacterial activity of essential oils from *citrus hystrix* (makrut lime) against respiratory tract pathogens. ScienceAsia. 2012;38(2):212–7.

67. Al-Aamri MS, Al-Abousi NM, Al-Jabri SS, Alam T, Khan SA. Chemical composition and in-vitro antioxidant and antimicrobial activity of the essential oil of *Citrus aurantifolia* L. leaves grown in Eastern Oman. *J Taibah Univ Med Sci.* 2018;13(2):108–12.
68. Andayani R, Mubarak Z, Rinanda DR, Kuala US, Pendidikan P, Gigi D, et al. Aktivitas Antibakteri Tepung Cacing Tanah (*Lumbricus rubellus*) terhadap *Enterococcus faecalis* secara In Vitro. 2016;1(2):201–10.
69. Suryadi Budi Utomo, Mita Fujiyanti, Warih Puji Lestari dan SM. Uji Aktivitas Antibakteri Senyawa Hexadecyltrimethylammonium-Bromide Terhadap Bakteri *Staphylococcus aureus* Dan *Escherichia coli* Antibacterial Activity Test Of The C-4-Methoxyphenylcalix [4] Resorcinarene Compound Modified By Hexadecyltrimethylammonium-. *J Kim DAN Pendidik Kim.* 2018;3(3):201–9.
70. Hasyul, Sitti Fatimah Putri DAN, Angraini S, Aditya, Lisni I. Analisis drug-related problems penggunaan antibiotik fluorokuinolon di salah satu puskesmas kabupaten garut. *J Ilm Farm Bahari.* 2020;11:137–44.
71. Sari LR. Uji efektifitas asap cair cangkang buah karet (*Hevea brasiliensis*) sebagai antibakteri *Bacillus subtilis*. *J Pendidik dan Ilmu Kim.* 2019;3(1):34–40.
72. Kuete V, Karaosmanoğlu O, Sivas H. Anticancer Activities of African Medicinal Spices and Vegetables. *Medicinal Spices and Vegetables from Africa: Therapeutic Potential Against Metabolic, Inflammatory, Infectious and Systemic Diseases.* 2017. 271–297 p.
73. Zarai Z, Kadri A, Chobba I Ben, Mansour R Ben, Bekir A, Mejdoub H. The in-vitro evaluation of antibacterial , antifungal and cytotoxic properties of *Marrubium vulgare* L . essential oil grown in Tunisia. 2011;1–8.
74. Jawetz, Melnick, Delberg's. *Medical Microbiology.* 26th ed. United State: The McGraw-Hill Companies; 2013.
75. Mulyani S. Analisis GC-MS dan daya anti bakteri minyak atsiri *Citrus amblycarpa* (Hassk) Ochse Antibacterial activity and GC-MS analysis of the Citrus. *Maj Farm Indones.* 2009;20(3):127–32.

76. Irahah N, Fouzia H, Fatima L, Ahmed E, Santé L, Environnement E, et al. Chemical composition, antibacterial and antioxidant activities of some essential oils against multidrug resistant bacteria. *Eur J Integr Med.* 2020;35(December 2019):101074.
77. Han Y, Sun Z, Chen W. Antimicrobial Susceptibility and Antibacterial Mechanism of Limonene against *Listeria monocytogenes*. *molecules.* 2020;25(33):1–15.
78. Li Z-H, Cai M, Liu Y-S, Sun P-L, Luo S-L. Antibacterial Activity and Mechanisms of Essential Oil from *Citrus medica* L. var. *sarcodactylis*. *molecules.* 2019;25:1–10.
79. J.Fowler C, PatrickDoherty, P.H.Alexander S. *Cannabis* Pharmacology. America: Elsevier; 2017. 94 p.
80. Carvalho HC de, Ieque AL, Valverde TL, Baldin, Pietrowski V, Meneguello, et al. Activity of (-)-Camphene Derivatives Against *Mycobacterium tuberculosis* in Acidic pH. *Med Chem (Los Angeles).* 2021;17(5).
81. Ndukwe GI, Ighomuaye MN. Chemical Composition And In Vitro Antimicrobial Activity Of Essential Oils Of *Jatropha Curcas* Linn. (Euphorbiaceae). *Anachem J.* 2017;8(1):1–14.
82. Alma MH, Nitz S, Kollmannsberger H, Digrak M, Efe FT, Yilmaz| N. Chemical Composition and Antimicrobial Activity of the Essential Oils from the Gum of Turkish Pistachio (*Pistacia vera* L.), *J Agric Food Chem.* 2004;52:3911–4.
83. Aripin D, Julaeha E, Dardjan M, Cahyanto A. Chemical composition of Citrus spp. and oral antimicrobial effect of Citrus sp. peels essential oils against *Streptococcus mutans*. *Padjadjaran J Dent.* 2015;27(1):1–11.