

DAFTAR PUSTAKA

1. Kurniawan A, Kurniawan C, Indraswati N, Mudjijati. Adanya kandungan minyak atsiri dalam kulit jeruk memungkinkan untuk meningkatkan nilai ekonomis limbah kulit jeruk. *Widya Tek* 2008;7(1):15–24.
2. Thonglem S, Khumweera P, Lahpun N. GC-MS analysis, Antioxidant Activity and Antimicrobial Activity of Kaffir Lime (*Citrus hystrix* DC.) and Key Lime (*Citrus aurantifolia* (Christm.) Swingle.) Peel Essential Oils. *J Curr Sci Technol* 2023;13(3):620–629.
3. ZULNELY Z. Prospek Eucaliptus citriodora sebagai minyak atsiri potensial. 2015;1:120–126.
4. Dilla Dertyasasa E, Anindito Sri Tunjung W. Volatile Organic Compounds of Kaffir Lime (*Citrus hystrix* DC.) Leaves Fractions and their Potency as Traditional Medicine. *Biosci Biotechnol Res Asia* 2017;14(4):1235–1250.
5. Zuhra CF, Lenny S, Nurtjahya K. Comparison of Antimicrobial and Antioxidant Activities of Essential Oils from the Leaf and Peel Citrus Hystrix. *Proc Int Conf Nat Environ Sci* [homepage on the Internet] 2020;67–72. Available from: <https://jurnal.unsyiah.ac.id/ICONES/article/view/6982/0>
6. Ikarini I, Harwanto, Yunimar. Karakteristik Fisik dan Identifikasi Senyawa pada Minyak Atsiri dari Limbah Kulit Jeruk. *Agriprima J Appl Agric Sci* 2021;5(2):131–137.
7. Unun Triasih UT, Ikarini I, Widyaningsih S, Wicaksono RC. Antifungal and Antibacterial Activity of Essential Oils of Kaffir Citrus Fruit Peel Extract Against Important Pathogens of Citrus Plants. *J Fitopatol Indones* 2023;19(6):246–252.
8. Warsito W, Noorhamdani N, Sukardi S, Suratmo S. AKTIVITAS ANTIOKSIDAN DAN ANTIMIKROBA MINYAK JERUK PURUT (*Citrus hystrix* DC.) DAN KOMPONEN UTAMANYA. *J Enviromental Eng Sustain Technol* 2017;4(1):13–18.
9. Aprilyanie I, Handayani V, Syarif RA. Uji Toksisitas Ekstrak Kulit Buah Tanaman Jeruk Purut (*Citrus hystrix* DC.) Dengan Menggunakan Metode Brine Shrimp Lethality Test (BSLT). *Makassar Nat Prod Journal*, 2023;1(1):1–9.
10. Elmitra E. UJI AKTIVITAS KRIM ANTIBAKTERI EKSTRAK KULIT JERUK PURUT (*Citrus hystrix* DC) TERHADAP BAKTERI *Staphylococcus aureus*. *J Ilm Pharm* 2021;8(2):17–34.
11. SOEKSMANTO A, HAPSARI Y, SIMANJUNTAK P. Antioxidant content of parts of Mahkota dewa, *Phaleria macrocarpa* [Scheff] Boerl. (Thymelaceae). *Biodiversitas J Biol Divers* 2007;8(2):92–95.
12. Nimse SB, Pal D. Free radicals, natural antioxidants, and their reaction mechanisms. *RSC Adv* 2015;5(35):27986–28006.
13. Giordano ME, Caricato R, Lionetto MG. Concentration dependence of the antioxidant and prooxidant activity of trolox in hela cells: Involvement in the induction of apoptotic volume decrease. *Antioxidants* 2020;9(11):1–12.
14. Sergedienne E, Jönsson K, Szymusiak H, Tyrakowska B, Rietjens IMCM, Čenas N. Prooxidant toxicity of polyphenolic antioxidants to HL-60 cells: Description of quantitative structure-activity relationships. *FEBS Lett* 1999;462(3):392–396.
15. Latifah F, Taufiq H, Fitriyana NM. Uji Antioksidan dan Karakterisasi Minyak Atsiri dari Kulit Jeruk Purut (*Citrus hystrix* D. C). *JPSCR J Pharm Sci Clin Res* 2023;8(1):46.
16. Le XT, Ha PTH, Phong HX, Hien TT, Ngan TTK. Extraction of Essential oils and volatile compounds of Kaffir lime (*Citrus hystrix* D.C) by hydrodistillation method. *IOP Conf Ser Mater Sci Eng* 2020;991(1).
17. Utami MR, Ardiyanti Y. Journal of Holistic and Health Sciences V o l . 3 , N o . 1 , J a n u a r i - J u n i 2 0 1 9 | 14 ANALISIS AKTIVITAS TOKSISITAS BEBERAPA MINYAK ATSIRI DENGAN METODE Journal of Holistic and Health Sciences. 2019;14–20.
18. Farah Dwi Wardani, Asep Sukohar, Afriyani RZO. Sains Medisina. Rev Artik PEMANFATAN KULIT JERUK SEBAGAI ANTIOKSIDAN DALAM SEDIAAN-SEDIAAN Farm [homepage on the Internet] 2024;2(3):118–126. Available from: <https://wpcpublisher.com/jurnal/index.php/sainsmedisina/article/view/383>
19. Groppo M, Pirani JR, Salatino MLF, Blanco SR, Kallunki JA. Phylogeny of Rutaceae based on two noncoding regions from cpDNA. *Am J Bot* 2008;95(8):985–1005.
20. Siti HN, Mohamed S, Kamisah Y. Potential Therapeutic Effects of *Citrus hystrix* DC and Its Bioactive Compounds on Metabolic Disorders. *Pharmaceuticals* 2022;15(2).

21. Appelhans MS, Bayly MJ, Heslewood MM, et al. A new subfamily classification of the Citrus family (Rutaceae) based on six nuclear and plastid markers. *Taxon* 2021;70(5):1035–1061.
22. Adrianto H, Yotopranoto S. Hebert Adrianto 1* , Subagyo Yotopranoto 2,3 , Hamidah 4. 2014;6(1):1–6.
23. Zhao Z, Wang Y, Nian M, et al. Citrus hystrix: A review of phytochemistry, pharmacology and industrial applications research progress. *Arab J Chem* [homepage on the Internet] 2023;16(11):105236. Available from: <https://doi.org/10.1016/j.arabjc.2023.105236>
24. Pontanayodsakorn C, Eurtivong C, Jiamboonsri P. Antibacterial and antibiofilm activities of kaffir lime essential oils and their active constituents against *Staphylococcus aureus* focusing on sortase A. *Heliyon* [homepage on the Internet] 2025;11(2):e41977. Available from: <https://doi.org/10.1016/j.heliyon.2025.e41977>
25. Hakim RJ, Mulyani Y, Hendrawati TY, Ismiyati. Pemilihan Bagian Tanaman Jeruk Purut (Citrus Hystrix d.c) Potensial Sebagai Minyak Essensial Aromaterapi Hasil Proses Maserasi Dengan Metode Analytical Hierarkhi Process (AHP). *Semin Nas Sains dan Teknol* 2019;1–7.
26. Ariani SRD, Prihasti AG, Prasetyawati AN. Buku Referensi Inovasi Hand Sanitizer Beradisi Minyak Atsiri Serai Wangi dengan Kombinasi Minyak Atsiri Kulit Jeruk Lemon, Nipis, dan Purut [Homepage on the Internet]. *Uwais Inspirasi Indonesia*, 2023; Available from: <https://books.google.com/books?hl=en&lr=&id=NI3NEAAQBAJ&oi=fnd&pg=PA19&q=minyak+atsiri+and+kulit+and+buah&ots=OttJNvYSCq&sig=pDw6vPcZ7VswdE-r3Uq4NQhc-14>
27. Hsouna A Ben, Sadaka C, Generalić Mekinić I, et al. The Chemical Variability, Nutraceutical Value, and Food-Industry and Cosmetic Applications of Citrus Plants: A Critical Review. *Antioxidants* 2023;12(2):1–37.
28. Anastasopoulou E, Graikou K, Ziogas V, Ganos C, Calapai F, Chinou I. Chemical Profiles and Antimicrobial Properties of Essential Oils from Orange, Pummelo, and Tangelo Cultivated in Greece. *Horticulturae* 2024;10(8):1–17.
29. González-Mas MC, Rambla JL, López-Gresa MP, Amparo Blázquez M, Granell A. Volatile compounds in citrus essential oils: A comprehensive review. *Front Plant Sci* 2019;10(February):1–18.
30. Husni E, Putri US, Dachriyanus. Chemical Content Profile of Essential Oil from Kaffir Lime (Citrus hystrix DC.) in Tanah Datar Regency and Antibacterial Activity . *Proc 2nd Int Conf Contemp Sci Clin Pharm 2021 (ICCSCP 2021)* 2022;40(lccscp):174–181.
31. Nuryandani E, Novitasari E, Abdurrahman MF, et al. Chemometric analysis of GC-MS chemical profiles and biological activities of three citrus essential oils in Indonesia. *J Appl Pharm Sci* 2024;14(12):187–195.
32. Dhifi W, Bellili S, Jazi S, Bahloul N, Mnif W. Essential Oils' Chemical Characterization and Investigation of Some Biological Activities: A Critical Review. *Medicines* 2016;3(4):25.
33. Ramadhanti A, Nurjanah S, Widyasanti A, Ainina N. Pemodelan kondisi hidrodistilasi minyak atsiri jahe merah (*Zingiber officinale* var. Roscoe) dengan menggunakan Response Surface Methodology. *Agrointek J Teknol Ind Pertan* 2024;18(2):429–439.
34. Chemat F, Vian MA, Cravotto G. Green extraction of natural products: Concept and principles. *Int J Mol Sci* 2012;13(7):8615–8627.
35. Coskun O. Separation Tecniques: CHROMATOGRAPHY. *North Clin Istanbul* 2016;3(2):156–160.
36. Vol I, Oct I, S JR, et al. Gas chromatography-Mass spectrometry-A Review. 2021;10(4):388–405.
37. Carpenete R. Gas Chromatography: Basic Concepts and Applications. *J Chromatogr Sep Tech* [homepage on the Internet] 2024;15(3):0–1. Available from: <https://www.longdom.org/open-access/gas-chromatography-basic-concepts-and-applications-108686.html%0Ahttps://www.longdom.org/>
38. Kotowska U, Żalikowski M, Isidorov VA. HS-SPME/GC-MS analysis of volatile and semi-volatile organic compounds emitted from municipal sewage sludge. *Environ Monit Assess* 2012;184(5):2893–2907.

39. Sharma S.S.S.M, Vaishnavi Atyam, Mahalakshmi Avidi DA. A Review on Gas chromatography – Mass spectroscopy. J Pharma Insights Res Short 2023;4–8.
40. Harvey DJ. GAS CHROMATOGRAPHY | Mass Spectrometry. Encycl Anal Sci 2005;10:V3-106-V3-116.
41. T. Desai C. Antioxidants: Fascinating and Favourable Biomolecules for Humans. Sci Innov 2015;3(6):113.
42. Phaniendra A, Jestadi DB, Periyasamy L. Free Radicals: Properties, Sources, Targets, and Their Implication in Various Diseases. Indian J Clin Biochem 2015;30(1):11–26.
43. Wulansari AN. Alternatif Cantigi Ungu (*Vaccinium Varingiaefolium*) Sebagai Antioksidan Alami : Review. Farmaka 2018;16(2):419–429.
44. Fidrianny I, Ayu D, Hartati R. Antioxidant capacities, phenolic, flavonoid and carotenoid content of various polarities extracts from three organs of *Sechium edule* (Jacq.) Swartz. Available online www.jocpr.com J Chem Pharm Res [homepage on the Internet] 2015;7(5):914–920. Available from: www.jocpr.com
45. Sunarni T, Pramono S, Asmah R. Antioxidant–free radical scavenging of flavonoid from The Leaves of *Stelechocarpus burahol* (Bl.) Hook f. & Th. Indones J Pharm [homepage on the Internet] 2007;18(3):111–116. Available from: <http://indonesianjpharm.farmasi.ugm.ac.id/index.php/3/article/view/451/330>
46. Lung JKS, Destiani DP. Uji Aktivitas Antioksidan Vitamin A, C, E dengan Metode DPPH. Farmaka Suplemen 2017;15(1):53–62.
47. Annisa RZJ. Karakterisasi Minyak Atsiri Tanaman Jahe (*Zingiber officinale*) Dari Daerah Kabupaten Tanah Datar Dengan Gas Chromathography Mass Spectrometry (GC MS) 2020;9(2303):34–45. Available from: <http://scholar.unand.ac.id/64941/>
48. Vitalia N, Najib A, Ahmad AR. Uji Toksisitas Ekstrak Daun PLETEKAN (*Ruellia tuberosa* L.) DENGAN MENGGUNAKAN METODE BRINE SHRIMP LETHALITY TEST (BSLT). J Fitofarmaka Indones 2016;3(1):124–129.
49. Nurvianthi RY, Asmal A. Uji Toksikitas Akut Ekstrak Etanol Akar Dan Biji Cempedak (*Artocarpus Champeden Spreng*) Asal Luwu Utara Terhadap Larva Udang (*Artemia Salina Leach*) Dengan Metode Brine Shrimp Lethality Test (Bslt). J Kesehat Luwu Raya [homepage on the Internet] 2022;09(01):41–54. Available from: <http://jurnalstikesluwuraya.ac.id/index.php/eq/article/view/155/127>
50. Sukandar D, Hermanto S, Lestari E. Uji Toksisitas Ekstrak Daun Pandan Wangi (*Pandanus amaryllifolius* Roxb.) Dengan Metode Brine Shrimp Lethality Test (BSLT). J Kim Val 2008;1(2).
51. Ivshina IB, Luchnikova NA, Maltseva PY, et al. Biotransformation of (–)-Isopulegol by *Rhodococcus rhodochrous*. Pharmaceuticals 2022;15(8).
52. Costa J, Islam M, Santos P, et al. Evaluation of Antioxidant Activity of Phytol Using Non- and Pre-Clinical Models. Curr Pharm Biotechnol 2016;17(14):1278–1284.
53. Api AM, Belsito D, Botelho D, et al. RIFM fragrance ingredient safety assessment, 2-heptyltetrahydrofuran, CAS Registry Number 2435-16-7. Food Chem Toxicol 2024;183(November 2023):114374.
54. Tanpure RP, George CS, Strecker TE, et al. Synthesis of structurally diverse benzosuberene analogues and their biological evaluation as anti-cancer agents. Bioorganic Med Chem 2013;21(24):8019–8032.
55. Aimad A, Sanae R, Anas F, et al. Insecticidal Properties of Essential Oil from *Mentha pulegium* L . 2021;2021.
56. Ouandaogo HS, Diallo S, Odari E, Kinyua J. Phytochemical Screening and GC-MS Analysis of Methanolic and Aqueous Extracts of *Ocimum kilimandscharicum* Leaves. ACS Omega 2023;8(50):47560–47572.
57. Safdar S, Shamim S, Khan M, et al. Probing Antibacterial and Anticancer Potential of *Selenicereus undatus*, *Pistacia vera* L. and *Olea europaea* L. against Uropathogens, MCF-7 and A2780 Cancer Cells. Molecules 2023;28(24).
58. Sengera GO, Kenanda EO, Onyancha JM. Antibacterial, Antioxidant Potency, and Chemical Composition of Essential Oils from Dried Powdered Leaves and Flowers of *Hypericum revolutum* subsp. *keniense* (Schweinf.). Evidence-based Complement Altern Med 2023;2023.