

DAFTAR PUSTAKA

1. Kumar Goswami A, Kr Sharma H. CNS effects of *Homalomena aromatic* based on linalool content: A review [Internet]. 2017. Available from: <https://www.researchgate.net/publication/317824659>
2. Dam SM, Van HT. Chemical profiles and biological activities of essential oils of *Arisaema* and *Homalomena* species (Araceae) – A review. *Journal of Phytology*. 2022; 14:41–9.
3. Christy P. Inventory of Hydrophyte in West Sumatra Based on Andalas University (ANDA) Herbarium Specimens. *Maximus: Journal of Biological and Life Sciences*. 2023;1(2):28–38.
4. Ali MS, Sayem SAJ, Habibullah, Quah Y, Lee EB, Birhanu BT, et al. Investigation of potential antioxidant, thrombolytic and neuropharmacological activities of *Homalomena aromatic* leaves using experimental and in Silico approaches. *Molecules*. 2021 Feb 2;26(4).
5. Nguyen LTK, Doan TQ, Nguyen PQD, Nguyen CBH, Tran LTT, Tran TVA, et al. Phytochemical Composition and Bioactivities of Essential Oils from Rimpang of *Homalomena pendula* and *Homalomena cochinchinensis*. *Nat Prod Commun*. 2023 May 1;18(5).
6. Phaniendra A, Jestadi DB, Periyasamy L. Free Radicals: Properties, Sources, Targets, and Their Implication in Various Diseases. Vol. 30, *Indian Journal of Clinical Biochemistry*. Springer India; 2015. p. 11–26.
7. Raut JS, Karuppayil SM. A status review on the medicinal properties of essential oils. Vol. 62, *Industrial Crops and Products*. Elsevier; 2014. p. 250–64.
8. Supu R, Diantini A, Levita J. Red Ginger (*Zingiber officinale* var. *rubrum*): Its Chemical Constituents, Pharmacological Activities and Safety. *Fitofarmaka*. 2018;8(1).
9. Srikandi S, Humaeroh M, Sutamihardja R. Kandungan Gingerol Dan Shogaol Dari Ekstrak Jahe Merah (*Zingiber officinale* Roscoe) Dengan Metode Maserasi Bertingkat. *al-Kimiya*. 2020;7(2):75–81.

10. Royal Botanical Gardenia. The Herbarium Catalogue. *Homalomena pendula*. Available from: <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:87268-1#higher-classification>
11. Trung LNT, An NH, Nguyen PTT, Quang HN, Quang HT, Thi TNM, et al. Identification and micropropagation of *Homalomena pendula*, an endangered medicinal plant. *Plant Cell Tissue Organ Cult.* 2024 Aug 1;158(2).
12. Rinai KR, Ismail IS, Son R, New CY, Rukayadi Y. Antibacterial and antioxidant activities of *Homalomena josefii* p.C. boyce and s.y. wong rimpang extract. *Food Res.* 2020;4(6):2122–31.
13. Nguyen LTK, Hoang HNT, Do TT, Tran TVA, Nguyen HT, Ho DV. Sesquiterpenoids from the rimpangs of *Homalomena pendula* and their anti-inflammatory activities. *Nat Prod Res.* 2023;37(15):2559–67.
14. Kurniasari L, Hartati I, Ratnani RD. Kajian Ekstraksi Minyak Jahe Kadar Zingiberene Tinggi Dengan MAE. Universitas Diponegoro, Semarang. Vol 4, no. 2, 2008. 47-52.
15. Husnu Can Baser K, Buchbauer G. *Handbook of Essential Oils: Science, Technology, and Applications*. CRC Press Taylor and France Group. 2010
16. Childers PM, Aleshire ME. Use of Essential Oils by Health Care Professionals for Health Maintenance. Vol. 34, *Holistic Nursing Practice*. Lippincott Williams and Wilkins; 2020. p. 91–102.
17. Departemen Kesehatan RI. *Parameter Standar Umum Ekstrak Tumbuhan Obat*. Jakarta. Direktorat Jenderal Pengawasan Obat dan Makanan, 2000.
18. Hujjatusnaini N, et al. *Buku Referensi Ekstraksi*. Institut Agama Islam Negri Palangkaraya. 2021.
19. Syafri S, Jaswir I, Yusof F, Rohman A, Ahda M, Hamidi D. The use of instrumental technique and chemometrics for essential oil authentication: A review. Vol. 4, *Results in Chemistry*. Elsevier B.V.; 2022.
20. Hardjono Satrohamidjojo. *Kimia minyak atsiri*. Yogyakarta: Gadjah Mada University Press; 2020.
21. Akdağ A, Öztürk E. *Distillation Methods of Essential Oils*. Ondokuz Mayıs University. Vol. 45. 22-31 2019.

22. Evama Y, Ishak, Novi S. Ekstraksi Minyak Serai Dapur (*Cymbopogon citratus*) Menggunakan Metode Maserasi. Jurnal Teknologi Kimia Unimal [Internet]. 10:2. 57-70. 2021.
23. Wathon S. Eflouration and Characterization of Essential Oil from *Cananga odorata*. Integrated Biological Sciences for Human Welfare, Universitas Jember. 2017
24. Dhea F, Rasdianah I. Enkapsulasi Minyak Atsiri Lemon (*Citrus limon*) Menggunakan Penyalut B-Siklodekstrin Terasetilasi. Journal UIN Alauddin 2019. 978–602
25. Cimino C, Maurel OM, Musumeci T, Bonaccorso A, Drago F, Souto EMB, et al. Essential oils: Pharmaceutical applications and encapsulation strategies into lipid-based delivery systems. Vol. 13, Pharmaceutics. MDPI AG; 2021. p. 1–35.
26. Soetjipto H. Antibacterial Properties of Essential Oil in Some Indonesian Herbs. Potential of Essential Oils, InTech Open; 2018. DOI: 10.5772/intechopen.78033
27. Chatri M, Bakhtiar et al. Perbandingan Komponen Minyak Atsiri Antara Daun Muda dan Daun Dewasa pada *Hyptis Suaveolens* (L.) Poit. Eksakta vol. 18, No. 2, 2017. Available from: <http://eksakta.ppj.unp.ac.id>
28. Setyaningrum Nugraheni K, Khasanah LU, Utami R, Ananditho BK. The Effect of Pretreatment and Variation Method of Distillation on quality of Cinnamon Leaf Oil. Vol. IX, Jurnal Teknologi Hasil Pertanian. 2016.
29. Aryani F. Cara Produksi dan Pengujian Kualitas Minyak Atsiri. Balai Penelitian dan Pengembangan Sumber Daya Alam. 2020
30. Anto. Rempah-rempah dan minyak atsiri. Penerbit: Lakeisha. 2020.
31. Nuriah S, Desvi Putri M, Rahayu S, Vanya Advait C, Nurfadhila L, Rahmawati Utami M. Journal of Pharmaceutical and Sciences. Volume 6, No. 2 (795-803), 2023.
32. Indriani S, Isdaryanti I, Agustia M, Poleuleng AB, Syahra NJ, Prastiyo YB. Analisis GC-MS (*Gas Chromatography-Mass Spectrometry*) Terhadap Tangkai Daun Kelapa Sawit (*Elaeis guineensis* Jaq.). Agrolantae: Jurnal Ilmiah Terapan Budidaya dan Pengelolaan Tanaman Pertanian dan Perkebunan. 2023 Sep 9;12(2):147–55.
33. Margareta MAH, Wonorahardjo S. Optimasi Metode Penetapan Senyawa Eugenol dalam Minyak Cengkeh Menggunakan Gas Chromatography – Mass Spectrum dengan Variasi Suhu Injeksi. Jurnal Sains dan Edukasi Sains. 2023 Aug 24;6(2):95–103.

34. Jatmika C, Palanggatan Maggadani B. Evaluasi Aktivitas Antioksidan Senyawa 4-[(E)-2-(4-okso-3-fenilkuinazolin-2-il) etenil]-benzensulfonamida dan Analognya. Pharm Sci Res Vol. 2, No. 3, 2015.
35. Rosi Andarina, Tantawi Djauhari. Antioksidan dalam Dermatologi. JKK 39-48. 2017;4(1).
36. Reni E. Pengantar Radikal Bebas dan Antioksidan. Yogyakarta, Deepublish; 2018.
37. Asri Werdhasari. Peran Antioksidan Bagi Kesehatan. Jurnal Biotek Medisiana Indonesia. 2014;3(2).
38. Schwag S. Antioxidant Activity: Journal of Food and Sciences and Technology. Vol. 2, 2014.
39. Kasséhin UC, Gbaguidi FA, Kapanda CN, Mccurdy C, Bigot AK, Poupaert JH. African Journal of Pure and Applied Chemistry Electronic and steric effects in the control of the Anilinium chloride catalyzed condensation reaction between Aldones and 4-Phenylthiosemicarbazide. 2013;7(9):325–9. Available from: <http://www.academicjournals.org/AJPAC>
40. Setiawan F, Yunita O, Kurniawan A. Uji Aktivitas Antioksidan Ekstrak Etanol Kayu Secang (*Caesalpinia sappan*) Menggunakan Metode DPPH, ABTS, dan FRAP. Vol. 2, Media Pharmaceutical Indonesiana . 2018.
41. Kut K, Cieniek B, Stefaniuk I, Bartosz G, Sadowska-Bartosz I. A Modification of the ABTS• Decolorization Method and an Insight into Its Mechanism. Processes. 2022 Jul 1;10(7).
42. Re R, Pellegrini N, Proteggente A, Pannala A, Yang M, Rice-Evans C. Original Contribution Antioxidant Activity Applying an Improved ABTS Radical Cation Decolorization Assay. Free Radical and Medicine, Elsevier Science. Vol. 26, No. 9/10, pp. 1231–1237 1999.
43. Munteanu I, Apetrei C. Analytical Methods Used in Determining Antioxidant Activity: A review. International Journal of Molecular Sciences. MDPI AG Vol. 22; 2021.
44. Feriani A, Tir M, Hamed M, Sila A, Nahdi S, Alwasel S, et al. Multidirectional insights on polysaccharides from Schinus terebinthifolius and Schinus molle fruits: Physicochemical and functional profiles, in vitro antioxidant, anti-genotoxicity, antidiabetic, and antihemolytic capacities, and in vivo anti-inflammatory and anti-nociceptive properties. Int J Biol Macromol. 2020 Dec 15;165:2576–87.

45. Sa'diah S, Anwar E, Jufri M, Cahyaningsih U. Jurnal Jamu Indonesia. 2019;4(3):93–102.
46. Sharopov FS, Wink M, Setzer WN. Radical Scavenging and Antioxidant Activities of Essential Oil Components-An Experimental and Computational Investigation. Natural Product Communications, Vol. 10 (1) 2015.
47. Chaouche TM, Haddouchi F, Ksouri R, Atik-Bekkara F. Evaluation of antioxidant activity of hydromethanolic extracts of some medicinal species from South Algeria. Journal of the Chinese Medical Association. 2014;77(6):302–7.
48. Sigovini M, Keppel E, Tagliapietra D. Open Nomenclature in the biodiversity era. Vol. 7, Methods in Ecology and Evolution. British Ecological Society; 2016. p. 1217–25.
49. Siregar NR. Pengaruh Ukuran Partikel Bahan dan Jumlah Air pada Alat Penyulingan Tipe Uap dan Air terhadap Rendemen Minyak Atsiri Tanaman Sereh Dapur (*Cymbopogon citratus*). Universitas Sumatera Utara. 2018;6(4).
50. Sahoo BM. Green Chemistry using Essential Oils as Synthons. Roland Institute of Pharmaceutical Sciences, 2023. Available from: <https://www.researchgate.net/publication/374264398>
51. Ferrentino G, Morozova K, Horn C, Scampicchio M. Extraction of Essential Oils from Medicinal Plants and their Utilization as Food Antioxidants. Curr Pharm Des. 2020 Mar 20;26(5):519–41.
52. Listyoarti FA, Linda. Perbandingan Antara Metode Hydro-Distillation dan Steam-Hydro Distillation dengan pemanfaatan Microwave terhadap Jumlah Rendemenserta Mutu Minyak Daun Cengkeh. Jurnal Teknik Pomits. 2013;2.
53. Haikal Hirzi M, Inawaty Sidabalok. Pengaruh Jumlah Bahan Dalam Tangki Penyuling Metode Uap dan Air Terhadap Rendemen Serta Mutu Minyak Sereh Wangi (*Cymbopogon nardus* L. Rendle). Jurnal Riset Ilmu Pertanian, vol. 2, 2022
54. Selvianti, Wijaya M, et al. Identification of Patchouli Alcohol Compounds from The Essential Oil of Patchouli Leaves (*Pogostemon cablin* benth.). Jurnal Chemica, Vol. 25. 2024.
55. Mohanty S, Ray A, Naik PK, Sahoo A, Jena S, Das PK, et al. Variation in Yield, Chemical Composition and Biological Activities of Essential Oil of Three Curcuma Species: A Comparative Evaluation of Hydrodistillation and Solvent-Free Microwave Extraction Methods. Molecules. 2023 Jun 1;28(11).

56. Wang Y, Liu H, Yu S, Zhang Y, Huang Y, He X, et al. Effects of geographical, soil and climatic factors on the two marker secondary metabolites contents in the roots of *Rubia cordifolia* L. *Front Plant Sci.* 2024;15.
57. Julianto. *Minyak Atsiri Bunga Indonesia*. yogyakarta; Deepublish. 2016.
58. Kristian J, Zain S, Nurjanah S, Widyasanti A, Putri H. The Effect Of Duration Of Extraction To Yield And Quality Of Jasmine Oil By Using Solvent Extraction Method. *Jurnal Teknotan.* 2016;10(2).
59. Kunaidi A, Halil M, Silaen AF. Uji Coba Peyulingan Serai Wangi Dengan Variasi Tekanan Ketel Menggunakan Metode Distilasi Uap Air. *Majalah Teknik SIMES.* 2023;17(2):14–8.
60. Qorriaina R, Hawa LC, Yulianingsih R, Keteknikan J, Teknologi PF, Brawijaya PU, et al. Aplikasi Pra-Perlakuan Microwave Assisted Extraction (MAE) Pada Ekstrak Daun Kemangi (*Ocimum sanctum*) Menggunakan Rotary Evaporator (Studi Pada Variasi Suhu dan Waktu Ekstraksi). *Jurnal Bioproses Komoditas Tropis.* Vol. 3, 2015.
61. Amne U. Formulasi Spray Gel Minyak Atsiri Daun Seledri (*Apium graveolens* L.) dan Uji Aktivitas Antibakteri Terhadap *Staphylococcus aureus* ATCC 25923. *DSpace UII.* 2020
62. Sadgrove NJ, Padilla-González GF, Phumthum M. Fundamental Chemistry of Essential Oils and Volatile Organic Compounds, Methods of Analysis and Authentication. *Plants: MDPI;* Vol. 11. 2022.
63. Ari K, Darmapatni G, Basori A, Ni D, Suaniti M. Pengembangan Metode GC-MS Untuk Penetapan Kadar Acetaminophen Pada Spesimen Rambut Manusia. *Jurnal Biosains Pascasarjana.* Vol. 18, 2016.
64. Purwanto, et al. *Minyak Atsiri: Tumbuhan Obat*. Gadjah Mada University Press. 2020;
65. Yeo SK, Ali AY et al. β -Bisabolene, a Sesquiterpene from the Essential Oil Extract of *Opoponax* (*Commiphora guidottii*), Exhibits Cytotoxicity in Breast Cancer Cell Lines. *Phytotherapy Research.* 2016, 1;30(3):418–25.
66. Li D Sen, Shi LL et al. A New Sesquiterpene Synthase Catalyzing the Formation of (R)- β -bisabolene from Medicinal Plant *Colquhounia coccinea* var. *mollis* and its Anti-adipogenic and Antibacterial activities. *Phytochemistry.* 2023, 1;211.

67. Keawsa-ard S, Liawruangrath B, Liawruangrath S, Teerawutgulrag A, Pyne SG. Chemical Constituents and Antioxidant and Biological Activities of the Essential Oil from Leaves of *Solanum spirale*. Nat Prod Commun. 2012 ;7(7):955–8.
68. Li WR, Zhao JY et al. Bergamotane-type Sesquiterpenes from the Leaves and Twigs of *Illicium oligandrum* and Their Anti-inflammatory Activities. Phytochemistry. 2023, 1;209.
69. Kačániová M, Galovičová L et al. Chemical Composition, Antioxidant, In Vitro and In Situ Antimicrobial, Antibiofilm, and Anti-Insect Activity of *Cedar atlantica* Essential Oil. Plants. 2022, 1;11(3).
70. Gennadios HA, Gonzalez V et al. Crystal Structure of (+)- δ -cadinene Synthase from *Gossypium Arboreum* and Evolutionary Divergence of Metal Binding Motifs for Catalysis. Biochemistry. 2009, 7;48(26):6175–83.
71. Pinho-Da-Silva L, Mendes-Maia PV et al. Trans-caryophyllene, a Natural Sesquiterpene, Causes Tracheal Smooth Muscle Relaxation Through Blockade of Voltage-dependent Ca^{2+} Channels. Molecules. 2012, 17(10):11965–77.
72. Kuspradini H, B. Kartiko AB, Putri AS, Suwinarti W, Rosamah E. Exploring the Essential Oil from Wild *Melaleuca leucadendra* with Trans-caryophyllene as the Predominant Compound for its Antioxidant Properties. Natural Resources for Human Health. 2025 3;5(3):393–405.
73. Govaerts R, Frodin DG. World Checklist and Bibliography of Araceae (and Acoraceae). The Board of Trustees of the Royal Botanic Gardens, Kew. 2002, 38:45:1–560. Available from: <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:9063161#publications>
74. Kesuma Sayuti I, Yenrina R. Antioksidan Alami dan Sintetik. padang: Andalas University Press; 2015.
75. Shah P, Modi HA. Comparative Study of DPPH, ABTS and FRAP Assays for Determination of Antioxidant Activity. Research Gate: 2015
76. Sains JK, Aplikasi D, Ningrum DW, Kusri D, Fachriyah E. Uji Aktivitas Antioksidan Senyawa Flavonoid dari Ekstrak Etanol Daun Johar (*Senna siamea* Lamk). Jurnal Kimia Sains dan Aplikasi. 2017;20(3):123–9.
77. Trisnantini D, Ismawati A, Tegar Pradana B, Gabriel Jonathan J. Prosiding Seminar Nasional Teknik Kimia “Kejuangan” Pengujian Aktivitas Antioksidan Menggunakan

Metode DPPH pada Daun Tanjung (*Mimusops elengi* L). Pengembangan Teknologi Kimia untuk Pengolahan Sumber Daya Alam Indonesia: Yogyakarta. 2016.

78. Melinda R, Sartika Daulay A, Ridwanto R, Amin Nasution M. Penetapan Kadar Vitamin C dan Aktivitas Antioksidan Hasil Perasan Buah Jambu Biji Kristal. *Indonesian Journal of Pharmaceutical Education*. 2024, 27;4(3).
79. Ugya *et al.* Antioxidant Properties of Selected Poaceae Species in Kano, Northern Nigeria. *European Journal of Biomedical and Pharmaceutical Sciences*. Vol. 4. Issue 5, 2017.
80. Fitriana WD, Ersam T, Shimizu K, Fatmawati S. Antioxidant Activity of *Moringa oleifera* Extracts. *J. Chem.* 2016. Vol. 16
81. Apak R, Gorinstein S, Böhm V, Schaich KM, Özyürek M, Güçlü K. Methods of Measurement and Evaluation of Natural Antioxidant Capacity/activity (IUPAC technical report). *Pure and Applied Chemistry*. 2013;85(5):957–98.
82. Kusumorini N, Nugroho AK, Pramono S, Martien R. Determination of The Potential Antioxidant Activity of Isolated Piperine from White Pepper Using DPPH, ABTS, and FRAP Methods. *Majalah Farmaseutik*. 2022, 5;18(4):454.
83. Aprilia N, Wijayati N, Cahyono E, Fristyayuniar AA. Potensi Antioksidan Senyawa alpha-Pinena dari Minyak Atsiri. Universitas Negeri Semarang: 2021, Available from: <https://doi.org/10.15294/.v0i0.30>
84. Asnah N, Megawati M, Parbuntari H, Riset P, Obat BB, Tradisional O, et al. Analisis In Vitro Aktivitas Antioksidan Ekstrak Aseton dari Ranting *Horsfieldia macrothyrsa* Menggunakan Beragam Metode In Vitro Analysis of Antioxidant Activity of *Horsfieldia macrothyrsa* Twig Acetone Extract Using Various Methods. *Jurnal Sumberdaya Hayati* 2024, Vol. 10 No. 2, hlm 48-53.
85. Soural I, Švestková P, Híc P, Balik J. Different values obtained by the FRAP method for the determination of slowly and rapidly reacting phenols. *Acta Aliment.* 2022, 31;51(1):84–92.
86. Syarif S, Kosman R, Inayah N. Uji Aktivitas Antioksidan Terong Belanda (*Solanum betaceum* Cav.) Dengan Metode FRAP. *As-Syifaa Press*. 2015;07(01):26–33.
87. Anwar Y, Lai G, Wau G. Medic Nutricia. *Jurnal Kesehatan Indonesia*, 2024;1(5):21–30.

88. Nurhayati. Kajian Potensi Minyak Atsiri sebagai Bahan Aktif Antioksidan dan Antiaging pada Produk Kosmetika. IPB University: 2021. Available from: <http://repository.ipb.ac.id/handle/123456789/105746>
89. Rachmatillah A, Hasni D, Aisyah Y. Uji Aktivitas Antioksidan Minyak Sereh Wangi (*Cymbopogon nardus* (L.) Rendle), Minyak Nilam (*Pogostemon cablin* Benth.) dan Minyak Pala (*Myristica fragrans* Houtt. JFP: Jurnal Ilmiah Mahasiswa Pertanian. 2021;6(4).
90. Munawarrah. Analisis Data Differentially Expressed Genes (DEG) Akibat Terpapar Nikotin dan Identifikasi Metabolit Sekunder Minyak Atsiri Kemangi Menggunakan GC-MS, Serta Prediksi Potensi Aktivitas Secara *in silico*. Universitas Surabaya, 2024.

