

DAFTAR PUSTAKA

- Adinda, A. A., Limanan, D., & Ferdinal, F. (2023). Ekstrak Bunga Rosella (*Hibiscus sabdariffa*): Uji Fitokimia, Total Antioksidan, dan Kadar Fenolik Total. *Jurnal Kesehatan Tambusai*, 4(3), 3580–3586. <https://doi.org/10.31004/jkt.v4i3.16215>
- Al-Juhaimi, F. Y., Ghafoor, K., Mohamed Ahmed, I. A., Özcan, M. M., Uslu, N., & Babiker, E. E. (2021). The effect of different solvent concentrations on total phenol, antioxidant activity values, and phenolic compounds of pomelo (*Citrus grandis* L. Osbeck) fruits. *Journal of Food Processing and Preservation*, 45(10), e15840. <https://doi.org/10.1111/jfpp.15840>
- Anggarani, M. A., Ilmiah, M., & Mahfudhah, D. N. (2023). Literature review of antioxidant activity of several types of onions and its potential as health supplements. *Indonesian Journal of Chemical Science*, 12(1), 103–111. <https://doi.org/10.55981/jbbi.2025.9209> [CEK: tahun DOI menunjukkan 2025, cocokkan dengan tanggal terbit asli sebelum submit]
- Anokwuru, C. P., Esiaba, I., Ajibaye, O., & Adesuyi, A. O. (2011). Polyphenolic content and antioxidant activity of *Hibiscus sabdariffa* calyx. *Research Journal of Medicinal Plants*, 5, 557–566. <https://doi.org/10.3923/rjmp.2011.557.566>
- Arteaga, J. F., Ruiz-Montoya, M., Palma, A., Alonso-Garrido, G., Pintado, S., & Rodríguez-Mellado, J. M. (2012). Comparison of the simple cyclic voltammetry (CV) and DPPH assays for the determination of antioxidant capacity of active principles. *Molecules*, 17(5), 5126–5138. <https://doi.org/10.3390/molecules17055126>
- Baliyan, S., Mukherjee, R., Priyadarshini, A., Vibhuti, A., Gupta, A., Pandey, R. P., & Chang, C.-M. (2022). Determination of antioxidants by DPPH radical scavenging activity and quantitative phytochemical analysis of *Ficus religiosa*. *Molecules*, 27(4), 1326. <https://doi.org/10.3390/molecules27041326>
- Bayram, I., & Decker, E. A. (2023). Underlying mechanisms of synergistic antioxidant interactions during lipid oxidation. *Trends in Food Science & Technology*, 133, 219–230. <https://doi.org/10.1016/j.tifs.2023.02.003>

- Chaudhary, P., Janmeda, P., Docea, A. O., Yeskaliyeva, B., Abdull Razis, A. F., Modu, B., Calina, D., & Sharifi-Rad, J. (2023). Oxidative stress, free radicals and antioxidants: Potential crosstalk in the pathophysiology of human diseases. *Frontiers in Chemistry*, 11, 1158198. <https://doi.org/10.3389/fchem.2023.1158198>
- Dam, T. T. H., Le, T. T., Kieu, D. M. N., Doan, P. Q., Quach, T. H., & Le, T. D. (2026). Sequential solvent fractionation strategies modulate polyphenol distribution and antioxidant activity of *Caryota mitis* seed extracts. *RSC Advances*, 16(31), 28191–28199. <https://doi.org/10.1039/D6RA02326F>
- Fagbemi, K. O., Aina, D. A., Olujimi, O. O., & Ojedokun, A. (2021). Soxhlet extraction versus hydrodistillation using the Clevenger apparatus: A comparative study on the extraction of a volatile compound from *Tamarindus indica* seeds. *The Scientific World Journal*, 2021, 5961586. <https://doi.org/10.1155/2021/5961586>
- Fardani, R., Rodiatullah, R., Halid, I., & Atfal, B. (2023). Uji Aktivitas Antioksidan Ekstrak Bunga Rosella (*Hibiscus sabdariffa*) Menggunakan Metode 1,1-Difenil-2-Pikrilhidrazyl (DPPH). *Jurnal Sains Natural*, 1(4), 97–100. <https://doi.org/10.35746/jsn.v1i4.411>
- Gulcin, İ., & Alwasel, S. H. (2023). DPPH radical scavenging assay. *Processes*, 11(8), 2248. <https://doi.org/10.3390/pr11082248>
- Gupta, A. K., Dhua, S., Sahu, P. P., Abate, G., Mishra, P., & Mastinu, A. (2021). Variation in phytochemical, antioxidant and volatile composition of pomelo fruit (*Citrus grandis* (L.) Osbeck) during seasonal growth and development. *Plants*, 10(9), 1941. <https://doi.org/10.3390/plants10091941>
- Hamrita, B., Emira, N., Papetti, A., Badraoui, R., Bouzlama, L., Ben Tekfa, M. I., Hamdi, A., Patel, M., Elsbali, A. M., Adnan, M., Ashraf, S. A., & Snoussi, M. (2022). Phytochemical analysis, antioxidant, antimicrobial, and anti-swarming properties of *Hibiscus sabdariffa* L. calyx extracts: In vitro and in silico modelling approaches. *Evidence-Based Complementary and Alternative Medicine*, 2022, 1252672. <https://doi.org/10.1155/2022/1252672>
- Haroen, U., Syafwan, S., Kurniawan, K., Budiansyah, A., Widjaja, N., & Fakhri, S. (2025). The phenolic and flavonoid content and biological activity of *Curcuma* (*Curcuma xanthorrhiza*) fractions with different solvent polarities.

- Hassan, H. A., Ahmed, H. Sh., & Hassan, D. F. (2024). Free radicals and oxidative stress: Mechanisms and therapeutic targets. *Human Antibodies*. <https://doi.org/10.3233/hab-240011>
- He, J.-Z., Shao, P., Liu, J.-H., & Ru, Q.-M. (2012). Supercritical carbon dioxide extraction of flavonoids from pomelo (*Citrus grandis* (L.) Osbeck) peel and their antioxidant activity. *International Journal of Molecular Sciences*, 13(10), 13065–13078. <https://doi.org/10.3390/ijms131013065>
- Herdiani, N., & Wikurendra, E. A. (2020). Aktivitas Antioksidan Ekstrak Kelopak Rosella (*Hibiscus sabdariffa* Linn.) dengan Metode DPPH. *Prosiding Seminar Nasional*, 3(2), 58–66.
- Inggrid, M., Hartanto, Y., & Widjaja, J. F. (2018). Karakteristik Antioksidan pada Kelopak Bunga Rosella (*Hibiscus sabdariffa* Linn.). *Jurnal Rekayasa Hijau*, 2(3), 62–72.
- Jomova, K., Raptova, R., Alomar, S. Y., Alwasel, S. H., Nepovimova, E., Kuca, K., & Valko, M. (2023). Reactive oxygen species, toxicity, oxidative stress, and antioxidants: chronic diseases and aging. *Archives of Toxicology*, 97(10), 2499–2574. <https://doi.org/10.1007/s00204-023-03562-9>
- Kapini, R., Chang, D., Münch, G., Carroll, L., & Zhou, X. (2025). Synergistic combinations of native Australian plants for skin inflammation and wound healing. *Biomedicines*, 13(7), 1754. <https://doi.org/10.3390/biomedicines13071754>
- Karmana, I. W. (2023). Artikel review: Bioaktivitas bunga rosella (*Hibiscus sabdariffa* L.) beserta pemanfaatannya. *Educatoria: Jurnal Ilmiah Ilmu Pendidikan*, 3(3), 208–216. <https://doi.org/10.36312/educatoria.v3i3.200>
- Khan, N. H., Qian, C. J., & Perveen, N. (2018). Phytochemical screening, antimicrobial and antioxidant activity determination of *Citrus maxima* peel. *Pharmacy & Pharmacology International Journal*, 6(4), 279–285. <https://doi.org/10.15406/ppij.2018.06.00187>
- Lade, S. N., Burle, S. S., Kosalge, S. B., & Bansode, M. N. (2022). Antimicrobial and antioxidant activity of *Hibiscus sabdariffa* Linn (Roselle). *International*

Journal of Pharmacy Research & Technology, 12(1), 22–27.
<https://doi.org/10.31838/ijprt/12.01.04>

Manao, M., Karo, R. M. B., & Razoki, R. (2024). Uji aktivitas antioksidan dari fraksi etil asetat ekstrak metanol daun kerai payung (*Filicium decipiens*). *Jambura Journal of Health Science and Research*, 6(3), 306–318.
<https://doi.org/10.35971/jjhsr.v6i3.26222>

Molyneux, P. (2004). The use of the stable free radical diphenylpicrylhydrazyl (DPPH) for estimating antioxidant activity. *Journal of Science Technology*, 26(2), 211–219.

Mutiah, R., Qonita, K., & Luthfi, F. H. (2023). Systematic review: Kajian fitokimia dan potensi farmakologi jeruk pameló (*Citrus maxima*). *Journal of Islamic Medicine*, 7(2), 163–173.

Nadia, S., Rianti, & Nirmala, R. (2016). Uji aktivitas antioksidan kombinasi dari kulit buah naga (*Hylocereus costaricensis*) dan bunga rosela (*Hibiscus sabdariffa* L.) dengan metode DPPH (1,1-Diphenyl-2-picrylhydrazyl) beserta bentuk tunggalnya. *Jurnal Kesehatan Kusuma Husada*, 7(2), 94–99.

Nishad, J., Singh, S. P., Singh, S., Saha, S., Dubey, A. K., Varghese, E., & Kaur, C. (2018). Bioactive compounds and antioxidant activity of selected Indian pummelo (*Citrus grandis* L. Osbeck) germplasm. *Scientia Horticulturae*, 233, 446–454. <https://doi.org/10.1016/j.scienta.2018.01.024>

Saini, R. K., Ranjit, A., Sharma, K., Prasad, P., Shang, X., Gowda, K. G. M., & Keum, Y. S. (2022). Bioactive compounds of citrus fruits: A review of composition and health benefits of carotenoids, flavonoids, limonoids, and terpenes. *Antioxidants*, 11(2), 239. <https://doi.org/10.3390/antiox11020239>

Sapkota, B., Devkota, H. P., & Poudel, P. (2022). *Citrus maxima* (Brum.) Merr. (Rutaceae): Bioactive chemical constituents and pharmacological activities. *Evidence-Based Complementary and Alternative Medicine*, 2022, 8741669. <https://doi.org/10.1155/2022/8741669>

Sharma, S., Singh, B., Kaur, G., Srivastava, Y., & Sandhu, R. S. (2024). Nutritional, bioactive, and health potential of pomelo (*Citrus maxima*): An exotic underutilized fruit. *Current Research in Nutrition and Food Science Journal*, 12(2). <https://doi.org/10.12944/CRNFSJ.12.2.35>

- Shina, M. A. I., Wardani, T. S., & Artini, K. S. (2024). Uji aktivitas antibakteri ekstrak, fraksi air, fraksi etil asetat, fraksi n-heksan daun petai cina (*Leucaena leucocephala*) terhadap bakteri *Staphylococcus aureus* ATCC 25923. *Obat: Jurnal Riset Ilmu Farmasi dan Kesehatan*, 2(6), 1–37. <https://doi.org/10.61132/obat.v2i6.785>
- Suryanita, S., Aliyah, A., Djabir, Y. Y., Wahyudin, E., Rahman, L., & Yulianty, R. (2019). Identifikasi Senyawa Kimia dan Uji Aktivitas Antioksidan Ekstrak Etanol Kulit Jeruk Bali (*Citrus maxima* Merr.). *Majalah Farmasi dan Farmakologi*, 23(1), 16–20. <https://doi.org/10.20956/mff.v23i1.6461>
- Tocmo, R., Pena-Fronteras, J., Calumba, K. F., Mendoza, M., & Johnson, J. J. (2020). Valorization of pomelo (*Citrus grandis* Osbeck) peel: A review of current utilization, photochemistry, bioactivities, and mechanisms of action. *Comprehensive Reviews in Food Science and Food Safety*, 19(4), 1969–2012. <https://doi.org/10.1111/1541-4337.12561>
- Tran, N. Y. T., Le, T. D., Dao, P. T., Bach, G. L., Huynh, P. X., & Tran, Q. N. (2021). Evaluation of different extraction methods on the polyphenols yield, flavonoids yield, and antioxidant activity of the pomelo flavedo extract from Da Xanh (*Citrus maxima* [Burm] Merr.) variety. *Food Science and Technology*, 42, e97021. <https://doi.org/10.1590/fst.97021>
- Triyanti, S. B., Lestari, F. P., Fitriana, P. A. N., Rostiana, H. R., Silalahi, D. D., Syalsabina, T. D., Putri, R. Y., & Saputra, I. S. (2025). Pengaruh metode ekstraksi maserasi, sonikasi, dan sokletasi terhadap nilai rendemen sampel kulit buah naga (*Hylocereus polyrhizus*). *Jurnal Sains dan Edukasi Sains*, 8(1), 71–78. <https://doi.org/10.24246/juses.v8i1p71-78>
- Tumilaar, S. G., Hardianto, A., Dohi, H., & Kurnia, D. (2024). A comprehensive review of free radicals, oxidative stress, and antioxidants: Overview, clinical applications, global perspectives, future directions, and mechanisms of antioxidant activity of flavonoid compounds. *Journal of Chemistry*, 2024, 5594386. <https://doi.org/10.1155/2024/5594386>
- Ulayya, N., Karima, N., Saputri, M., Sudewi, S., Siahaan, D. N., & Hasanah, F. (2025). Evaluasi aktivitas antioksidan kombinasi ekstrak etanol kulit buah jeruk manis (*Citrus sinensis* (L.) Osbeck) dan ampas wortel (*Daucus carota* L.) dalam sediaan serum. *Jambura Journal of Health Sciences and Research*, 7(3), 304–315. <https://doi.org/10.35971/jjhsr.v7i3.33014>

- Vijayalakshmi, P., & Velraj, M. (2025). A systematic insight into the pharmacognostical, phytochemical, chemo-fingerprinting and pharmacological assessment of *Citrus maxima*. *Journal of Natural Remedies*, 25(5), 1057–1067. <https://doi.org/10.18311/jnr/2025/35681>
- Villanueva-Bermejo, D., Siles-Sánchez, M. de las N., Martín Hernández, D., Rodríguez García-Risco, M., Jaime, L., Santoyo, S., & Fornari, T. (2024). Theoretical framework to evaluate antioxidant synergistic effects from the coextraction of marjoram, rosemary and parsley. *Food Chemistry*, 437, 137919. <https://doi.org/10.1016/j.foodchem.2023.137919>
- Wakeel, A., Jan, S. A., Ullah, I., Shinwari, Z. K., & Xu, M. (2019). Solvent polarity mediates phytochemical yield and antioxidant capacity of *Isatis tinctoria*. *PeerJ*, 7, e7857. <https://doi.org/10.7717/peerj.7857>
- Wardani, T. S., Endrat, U. K., Kezia, M. P., & Muhammad, A. F. R. F. (2021). Isolasi dan Uji Antioksidan Hisperidin dari Kulit Jeruk Bali (*Citrus maxima* Merr) sebagai Peningkat Imun untuk Mencegah COVID-19 dengan Metode DPPH. *Jurnal Delima Harapan*, 8(2), 53–61. <https://doi.org/10.31935/delima.v8i2.138>
- Xiao, L., Ye, F., Zhou, Y., & Zhao, G. (2021). Utilization of pomelo peels to manufacture value-added products: A review. *Food Chemistry*, 351, 129247. <https://doi.org/10.1016/j.foodchem.2021.129247>
- Yusri, N. M., Chan, K. W., Iqbal, S., & Ismail, M. (2012). Phenolic content and antioxidant activity of *Hibiscus cannabinus* L. seed extracts after sequential solvent extraction. *Molecules*, 17(11), 12612–12621. <https://doi.org/10.3390/molecules171112612>
- Zaky, A. A., Akram, M. U., Rybak, K., Witrowa-Rajchert, D., & Nowacka, M. (2024). Bioactive compounds from plants and by-products: Novel extraction methods, applications, and limitations. *AIMS Molecular Science*, 11(2), 150–188. <https://doi.org/10.3934/molsci.2024010>