

DAFTAR PUSTAKA

- Abdel-Gaber, R., Albeshr, M., Dkhil, M. A., Almohawis, N., Abdelmeguid, K. A., Delic, D., ... & Al-Shaebi, E. M. (2025). Antibacterial activity of Krameria lappacea root extract against gram-positive and gram-negative bacteria and its cytotoxicity on lung and breast cancer cell lines. *Frontiers in Microbiology*, *16*, 1662564.
- Ahmed, N., Karobari, M. I., Yousaf, A., Mohamed, R. N., Arshad, S., Basheer, S. N., & Yean, C. Y. (2022). The antimicrobial efficacy against selective oral microbes, antioxidant activity and preliminary phytochemical screening of Zingiber officinale. *Infection and Drug Resistance*, 2773-2785.
- Aiyuba, D. S., Rakhmatullah, A. N., & Restapaty, R. (2023). Uji Aktivitas Antioksidan Ekstrak Metanol Daun Ramania (*Bouea macrophylla* Griffith.) Menggunakan Metode DPPH: Antioxidant Activity Test of Methanol Extract of Ramania Leaf (*Bouea macrophylla* Griffith.) Using the DPPH method. *Jurnal Surya Medika (JSM)*, *9*(1), 81-87.
- Ali, F., Silvy, T. N., Hossain, T. J., Uddin, M. K., & Uddin, M. S. (2021). Prevalence and antimicrobial resistance phenotypes of Salmonella species recovered at various stages of broiler operations in Hathazari, Bangladesh.
- Ali, M. Q., Azhar, M. A., Munaim, M. S. A., Ruslan, N. F., Nour, A. H., Ahmad, N., ... & Alsubhi, L. M. (2025). Quality characteristics and antioxidant activity of fermented symbiotic beverages supplemented with *Eucheuma cottonii*. *Discover Food*, *5*(1), 292.
- Al-Mohammadi, A. R., Ismaiel, A. A., Ibrahim, R. A., Moustafa, A. H., Abou Zeid, A., & Enan, G. (2021). Chemical constitution and antimicrobial activity of kombucha fermented beverage. *Molecules*, *26*(16), 5026.
- Andriyana, M., Asfirizal, V., & Yani, S. (2021). Uji Daya Hambat Ekstrak Etanol Daun Tigaron (*Crateva religiosa* G. Forst.) terhadap Pertumbuhan Bakteri Streptococcus Mutans dan Porphyromonas Gingivalis secara In Vitro. *Mulawarman Dental Journal*, *1*(2), 40-47.

- Antolak, H., Piechota, D., & Kucharska, A. (2021). Kombucha tea—A double power of bioactive compounds from tea and symbiotic culture of bacteria and yeasts (SCOBY). *Antioxidants*, *10*(10), 1541.
- Apriani, A., Muna, T., & Azhari, S. (2024). Preliminary Content of Glibenklamide and Its Metabolite 4-trans-hydroxyglibenclamide Using Uv-Vis Spectrophotometry Method. *Journal of Pharmaceutical and Sciences*, 365-371.
- Ayed, L., Ben Abid, S., & Hamdi, M. (2017). Development of a beverage from red grape juice fermented with the Kombucha consortium. *Annals of microbiology*, *67*(1), 111-121.
- Azizan, M. A., Qadir, R., Zakaria, M. A., Mohsin, A. Z., & Hussin, A. S. M. (2025). Exploring the characteristics of kombucha tea fermented with soursop (*Annona muricata*), Noni (*Morinda citrifolia*) and pineapple (*Ananas comosus*). In *BIO Web of Conferences* (Vol. 159, p. 01002). EDP Sciences.
- B2P2TOOT. (2019). *Sebelas Ramuan Jamu Saintifik*. Kemenkes RI.
- Cheepchirasuk, N., Kaewkod, T., Suriyaprom, S., Intachaisri, V., Ngamsaard, P., & Tragoolpua, Y. (2025). Functional metabolites and inhibitory efficacy of kombucha beverage on pathogenic bacteria, free radicals and inflammation. *Scientific Reports*, *15*(1), 19187.
- Davis, W. W., & Stout, T. R. (1971) 'Dish Plate Method of Microbiological Antibiotic Essay. *Journal of Microbiology*, *22*(4), pp. 659-665.
- Dewi, P. D. G. P., Ratih, G. A. M., & Suryaningsih, P. A. (2023). *Antibacterial activity of Rosella Tea Kombucha against the growth of Escherichia coli based on fermentation time variations*. *Internasional Conference on Multidisciplinary Approaches in Health Science*, *1*, 380–387.
- Di Napoli, A., & Zucchetti, P. (2021). A comprehensive review of the benefits of *Taraxacum officinale* on human health. *Bulletin of the National Research Centre*, *45*(1), 110.
- Díaz, K., Espinoza, L., Madrid, A., Pizarro, L., & Chamy, R. (2018). Isolation and identification of compounds from bioactive extracts of *Taraxacum officinale* Weber ex FH Wigg.(Dandelion) as a potential source of antibacterial

- agents. *Evidence-based Complementary and Alternative Medicine*, 2018(1), 2706417.
- Do, A. D., & Van, T. P. (2025). Development and Evaluation of Piper sarmentosum-Based Kombucha: Fermentation, Bioactivity, and Sensory Acceptance. *Polish Journal of Food and Nutrition Sciences*, 75(1), 16-23
- Faisal, H. (2019). Uji Aktivitas Antioksidan Ekstrak Etanol Buah Okra (*Abelmoschus esculentus* L. Moench) Dengan Metode DPPH (1, 1-difenil-2-pikrilhidrazil) dan Metode ABTS (2, 2-azinobis-(3-Ethylbenzothiazoline-6-Sulfonic Acid). *Ready Star*, 2(1), 1-5.
- Falih, H. Y., Abed, S. Y., adnan Abbas, S., & Jasiem, T. M. (2020). Antibacterial activity and phytochemical screening of Iraqi *Taraxcum Officinale* L. *Indian Journal of Forensic Medicine & Toxicology*, 14(2), 1105-1109.
- Fan, M., Zhang, X., Song, H., & Zhang, Y. (2023). Dandelion (*Taraxacum* Genus): A review of chemical constituents and pharmacological effects. *Molecules*, 28(13), 5022.
- Fatmawati, I., & Mulyana, W. O. (2023). Uji Aktivitas Antioksidan Ekstrak Etil Asetat Daun Belimbing Wuluh (*Aveerrhoa bilimbi* L.) dengan Metode DPPH. *Jurnal Kimia Dan Pendidikan Kimia*, 12(1), 41-49.
- Fulga, A., & Pantea, V. (2020). Antioxidant activity of *Taraxacum officinale*. In *MedEspera*, 8, 268-269.
- Hani, R. C., & Milanda, T. (2016). Manfaat antioksidan pada tanaman buah di indonesia. *Farmaka*, 14(1), 184-190.
- Harti, A. S. (2015) *Mikrobiologi Kesehatan*. Yogyakarta: Andi Offset.
- Indra, I., Nurmallasari, N., & Kusmiati, M. (2019). Fenolik Total, Kandungan Flavonoid, dan Aktivitas Antioksidan Ekstrak Etanol Daun Mareme (*Glochidion arborescense* Blume.). *Jurnal Sains Farmasi & Klinis*, 6(3), 206-212.
- Irianti TT, Kuswandi, Nuranto S, Purwanto. (2017). *Antioksidan*. Yogyakarta : UGM Press.
- Ivanišová, E., Meňhartová, K., Terentjeva, M., Harangozo, Ľ., Kántor, A., & Kačániová, M. (2020). The evaluation of chemical, antioxidant,

- antimicrobial and sensory properties of kombucha tea beverage. *Journal of food science and technology*, 57(5), 1840-1846.
- Jakubczyk, K., Kałduńska, J., Kochman, J., & Janda, K. (2020). Chemical profile and antioxidant activity of the kombucha beverage derived from white, green, black and red tea. *Antioxidants*, 9(5), 447.
- Jawetz, E., Melnick, J. L., & Adelberg, E. A. (2008). *Medical Microbiology*. Jakarta: Salemba Medika.
- Jedrejek, D., Lis, B., Rolnik, A., Stochmal, A., & Olas, B. (2019). Comparative phytochemical, cytotoxicity, antioxidant and haemostatic studies of *Taraxacum officinale* root preparations. *Food and Chemical Toxicology*, 126, 233-247.
- Kaashyap, M., Cohen, M., & Mantri, N. (2021). Microbial diversity and characteristics of kombucha as revealed by metagenomic and physicochemical analysis. *Nutrients*, 13(12), 4446.
- Katili, Y. I., Wewengkang, D. S., & Rotinsulu, H. (2020). Uji aktivitas antimikroba dari jamur laut yang berasosiasi dengan organisme laut karang lunak *Lobophytum* sp. *PHARMACON*, 9(1), 108-114.
- Kitwetcharoen, H., Phung, L. T., Klanrit, P., Thanonkeo, S., Tippayawat, P., Yamada, M., & Thanonkeo, P. (2023). Kombucha healthy drink—recent advances in production, chemical composition and health benefits. *Fermentation*, 9(1), 48.
- Kucharska, E., Wachura, D., Elchiev, I., Bilewicz, P., Gąsiorowski, M., & Pełech, R. (2025). Co-Fermentation of Dandelion Leaves (*Taraxaci folium*) as a Strategy for Increasing the Antioxidant Activity of Fermented Cosmetic Raw Materials—Current Progress and Prospects. *Applied Sciences*, 15(16), 9021.
- Lis, B., Jedrejek, D., Rywaniak, J., Soluch, A., Stochmal, A., & Olas, B. (2020). Flavonoid preparations from *Taraxacum officinale* L. fruits—A phytochemical, antioxidant and hemostasis studies. *Molecules*, 25(22), 5402.
- Liu, N., Song, M., Wang, N., Wang, Y., Wang, R., An, X., & Qi, J. (2020). The effects of solid-state fermentation on the content, composition and in vitro

- antioxidant activity of flavonoids from dandelion. *PLoS One*, *15*(9), e0239076.
- Nasution, I. W., & Nasution, N. H. (2022). Peluang minuman teh kombucha dan potensinya sebagai minuman kesehatan pencegah dan penyembuh aneka penyakit. *Journal of Comprehensive Science*, *1*(1), 9-16.
- Nawangsih, A. (2023). Aktivitas antioksidan ekstrak daun jombang (*taraxacum officinale fh wigg*) pada lokasi berbeda menggunakan metode dpph dan frap (Doctoral dissertation, Universitas Pembangunan Nasional Veteran Jakarta).
- Nawangsih, A., Muti, A. F., Revina, R., & Rifkia, V. (2024). Ferric reducing ability ekstrak daun jombang (*Taraxacum officinale* FH Wigg) pada lokasi berbeda di Indonesia. *Jurnal Farmagazine*, *11*(1), 25-32.
- Nowak, A., Duchnik, W., Zielonka-Brzezicka, J., Muzykiewicz, A., Florkowska, K., Klimowicz, A., ... & Dziedzic, A. (2019). The antioxidant activity of ethanolic and aqueous extracts of dandelion (*Taraxacum officinale* L.). *Pomeranian Journal of Life Sciences*, *65*(4).
- Nurhayati, L. S., Yahdiyani, N., & Hidayatulloh, A. (2020). Perbandingan pengujian aktivitas antibakteri starter yogurt dengan metode difusi sumuran dan metode difusi cakram. *Jurnal Teknologi Hasil Peternakan*, *1*(2), 41-46.
- Nuryanti, S. (2022). Production of kombucha from *Muntingia calabura* L. leaves and evaluation of its antibacterial activity and total flavonoid content. *Journal of Applied Pharmaceutical Science*, *12*(8), 187-192.
- Pratiwi, S. T. (2008). Mikrobiologi Farmasi. Jakarta: Penerbit Erlangga.
- Rizikiyan, Y., & TW, S. P. (2019). Uji aktivitas antioksidan lipstik sari buah naga super merah (*Hylocereus costaricensin* L.) dengan metode dpph (1, 1-difenil-2-pikrilhidrazil). *Warta Bhakti Husada Mulia: Jurnal Kesehatan*, *6*(2).
- Rumpf, J., Burger, R., & Schulze, M. (2023). Statistical evaluation of DPPH, ABTS, FRAP, and Folin-Ciocalteu assays to assess the antioxidant capacity of lignins. *International Journal of Biological Macromolecules*, *233*, 123470.

- Rohmah, J. (2022). Antioxidant activities using DPPH, FIC, FRAP, and ABTS methods from ethanolic extract of lempuyang gajah rhizome (*Zingiber zerumbet* (L.) Roscoe ex Sm.). *Jurnal Kimia Riset (JKR)*, 7(2), 152-166.
- Rosmania, R., & Yanti, F. (2020). Perhitungan jumlah bakteri di Laboratorium Mikrobiologi menggunakan pengembangan metode Spektrofotometri. *Jurnal Penelitian Sains*, 22(2), 76-86.
- Rosyadi, A., Triatmoko, B., & Nugraha, A. S. (2022). Isolation of estuary soil fungi and screening antibacterial activity against *Staphylococcus aureus*. *Indonesian Journal of Pharmaceutical Science and Technology*, 9(1), 16.
- Rotinsulu, S., Fatimawali, F., & Tallei, T. E. (2019). Transformasi plasmid yang mengandung Gen merB pada bakteri *Escherichia coli* TOP-10. *PHARMACON*, 8(2), 290-297.
- Sadikin, N. A. N., Bintari, S. H., Widiatningrum, T., & Dewi, P. (2021). Isolasi, karakterisasi, dan uji aktivitas antibakteri dari bakteri endofit daun kelor (*Moringa oleifera*). *Life Science*, 10(2), 109-119.
- Salem, M. O. A., Ahmed, G. S., Abuamoud, M. M. M., & Rezgalla, R. Y. M. (2025). Antimicrobial Activity of Extracts of Dandelion (*Taraxacum officinale*) Against *Escherichia coli* and *Staphylococcus aureus*: Mechanisms, Modern Insights, and Therapeutic Potential. *Libyan Journal of Medical and Applied Sciences*, 37-40.
- Sedaghati, M., Akbari, R., Lotfollahi Haggahi, L., Yousefi, S., Mesbahi, T., & Delfi, M. (2024). Survey of probable synergism between melittin and ciprofloxacin, rifampicin, and chloramphenicol against multidrug-resistant *Pseudomonas aeruginosa*. *Frontiers in Microbiology*, 15, 1480299.
- Setyaningsih, W., Warni, W. O. R. S., Larasati, I. D., Yanti, R., & Utami, T. (2025). Bioprocess strategies for maximizing SCOBY growth and evaluating fermentation dynamics on phenolic content and antioxidant activity in Roselle-based Kombucha. *Phytomedicine Plus*, 5(2), 100791.
- Shah, P., & Modi, H. A. (2015). Comparative study of DPPH, ABTS and FRAP assays for determination of antioxidant activity. *Int. J. Res. Appl. Sci. Eng. Technol*, 3(6), 636-641.

- Sinaga, D. P., Tampubolon, D. K. A., Kembaren, R. F., & Martgrita, M. M. (2022). Fermentation process effect to enhance antioxidant and antibacterial activity of phenolic compounds and its possible application to galactomannan polysaccharides: a review. In IOP Conference Series: Earth and Environmental Science (Vol. 1097, No. 1, p. 012027). IOP Publishing.
- Sintyadewi, P. R., & Fitriani, P. P. E. (2024). Determination of Antioxidant Activity in Kombucha of Kecombrang Flower (*Etilingera elatior*) for the Development of Functional Beverages. *Jurnal Pijar Mipa*, 19(2), 343-347.
- Suleman, A. W., Sari, N., Safaruddin, S., Adri, T. A., Siradjuddin, M., & Prihandari, A. (2024). The Comparison and Test of Antioxidant Activity of Ethanol Extracts of Pangi Leaves and Seeds (*Pangium Edule* Reinw.) Using the DPPH (1, 1-Diphenyl-2-Picrylhydrazyl) Method. *CERATA Jurnal Ilmu Farmasi*, 15(2), 84-92.
- Taufiq, H., 2017. Potensi Fraksi-Fraksi Dari Ekstrak Tanaman Yang Dikenal Sebagai Antioksidan. *Jurnal Farmasi Sains Dan Praktik* 3 (1).
- Thongbai, B., Sukboonyasatit, D., Banlue, K., Inchuen, S., Chuenta, W., Siriamornpun, S., & Suwannarong, S. (2025). Cascara Kombucha: The Role of Fermentation and Particle Size in Enhancing Antioxidant and Bioactive Properties. *Molecules*, 30(9), 1934.
- Toasa, D. A. S., Kurniawan, K., & Estikomah, S. A. (2023) 'Uji Aktivitas Antibakteri Kombinasi Ekstrak Buah Labu Air (*Lagenaria Siceraria* (Molina) Standl.) dan Madu Multiflora Terhadap *Salmonella typhi* Secara In Vitro', *Jurnal Ilmiah Global Farmasi (JIGF)*, 1(1), pp. 18-26.
- Villarreal-Soto, S. A., Beaufort, S., Bouajila, J., Souchard, J. P., & Taillandier, P. (2018). Understanding kombucha tea fermentation: a review. *Journal of food science*, 83(3), 580-588.
- Villarreal-Soto, S. A., Bouajila, J., Pace, M., Leech, J., Cotter, P. D., Souchard, J. P., ... & Beaufort, S. (2020). Metabolome-microbiome signatures in the fermented beverage, Kombucha. *International Journal of Food Microbiology*, 333, 108778.
- Wahyudi, I., Lisdiana, L., & Astuti, B. (2023). Karakteristik Kombucha dengan Penambahan Ekstrak Kayu Manis (*Cinnamomum burmannii*) dan Kayu

Secang (*Caesalpinia sappan*) pada Proses Fermentasi Sekunder. *Rekayasa*, 16(3), 351-358.

- Wang, L., Sun, P., Huang, M., Han, Z., Yu, H., Wang, K., ... & Li, B. (2025). Impact of Kombucha Fermentation on the Flavor and Physicochemical Properties of Tea (*Camellia sinensis*) Flower Infusions. *Food Frontiers*, 6(2), 750-762.
- Wang, S., Li, C., Wang, Y., Wang, S., Zou, Y., Sun, Z., & Yuan, L. (2023). Changes on physiochemical properties and volatile compounds of Chinese kombucha during fermentation. *Food Bioscience*, 55, 103029.
- Zhao, Z. J., Sui, Y. C., Wu, H. W., Zhou, C. B., Hu, X. C., & Zhang, J. (2018). Flavour chemical dynamics during fermentation of kombucha tea. *Emirates Journal of Food and Agriculture*, 30(9), 732-741.
- Zhuang, X., Shi, W., Shen, T., Cheng, X., Wan, Q., Fan, M., & Hu, D. (2024). Research Updates and Advances on Flavonoids Derived from Dandelion and Their Antioxidant Activities. *Antioxidants (Basel, Switzerland)*, 13(12), 1449.
- Ziemlewska, A., Nizioł-Lukaszewska, Z., Bujak, T., Zagórska-Dziok, M., Wójciak, M., & Sowa, I. (2021). Effect of fermentation time on the content of bioactive compounds with cosmetic and dermatological properties in Kombucha Yerba Mate extracts. *Scientific Reports*, 11(1), 18792.