

DAFTAR PUSTAKA

- Abeyrathne, E.D.N.S., Nam, K. dan Ahn, D.U. (2021) "Analytical methods for lipid oxidation and antioxidant capacity in food systems," *Antioxidants*, 10(10), hal. 1–19. Tersedia pada: <https://doi.org/10.3390/antiox10101587>.
- Agustiarini, V. dan Wijaya, D.P. (2022) "Uji aktivitas antioksidan ekstrak etanol-air (1:1) bunga Rosella (*Hibiscus sabdariffa* L.) dengan metode DPPH (1,1-difenil-2-pikrilhidrazil)," *Jurnal Penelitian Sains*, 24(1), hal. 29–32.
- Almahy, H.A., Abdel-Razik, H.H. dan El-Badry, Y.A. (2017) "Ultrasound-Assisted Extraction of Anthocyanin Pigments from *Hibiscus sabdariffa* (Rosella) and its Phytochemical Activity at Kingdom of Saudi Arabia," *International Journal of Chemical Sciences Research*, 15(4), hal. 196. Tersedia pada: www.tsijournals.com.
- Ati, V.M., Mauboy, R.S. dan Keneng, M.S.R.A. (2020) "Pengujian Kadar Bilangan Peroksida dan Asam Lemak Bebas Minyak Kelapa (*Cocos nucifera* L.) Kelentik," *Jurnal Biotropikal Sains*, 17(2), hal. 24–30.
- Banwo, K., Sanni, A., Sarkar, D., Ale, O. dan Shetty, K. (2022) "Phenolics-Linked Antioxidant and Anti-hyperglycemic Properties of Edible Roselle (*Hibiscus sabdariffa* Linn.) Calyces Targeting Type 2 Diabetes Nutraceutical Benefits in vitro," *Frontiers in Sustainable Food Systems*, 6(January), hal. 1–13. Tersedia pada: <https://doi.org/10.3389/fsufs.2022.660831>.
- Barišić, V., Kopjar, M., Jozinović, A., Flanjak, I., Ačkar, Đ., Miličević, B., Šubarić, D., Jokić, S. dan Babić, J. (2019) "The chemistry behind chocolate production," *Molecules*, 24(17). Tersedia pada: <https://doi.org/10.3390/molecules24173163>.
- Bekdeşer, B., Esin Çelik, S., Bener, M., Dondurmacıoğlu, F., Yıldırım, E., Nida Yavuz, E. dan Apak, R. (2024) "Determination of primary and secondary oxidation products in vegetable oils with gold nanoparticle based fluorometric turn-on nanosensor: A new total oxidation value," *Food Chemistry*, 434(July 2023). Tersedia pada: <https://doi.org/10.1016/j.foodchem.2023.137426>.
- Belščak-Cvitanović, A., Komes, D., Benković, M., Karlović, S., Hečimović, I., Ježek, D. dan Bauman, I. (2012) "Innovative formulations of chocolates enriched with plant polyphenols from *Rubus idaeus* L. leaves and characterization of their physical, bioactive and sensory properties," *Food Research International*, 48(2), hal. 820–830. Tersedia pada: <https://doi.org/10.1016/j.foodres.2012.06.023>.
- Devitria, R., Sepriyani, H. dan Sari, S. (2020) "Antioxidant Activity Studies of Methanol Extract of Ciplukan Leaves using the Method of 2,2-DIPHENYL

1-PICRILHIDRAZYL (DPPH),” *Jurnal Penelitian Farmasi Indonesia*, 9(1), hal. 31–36. Tersedia pada: <https://ejournal.stifarriau.ac.id/index.php/jpfi/article/view/800>.

Ferreira, S.M. dan Santos, L. (2022) “From by-product to functional ingredient: Incorporation of avocado peel extract as an antioxidant and antibacterial agent,” *Innovative Food Science and Emerging Technologies*, 80(August). Tersedia pada: <https://doi.org/10.1016/j.ifset.2022.103116>.

Ferreira, T., Gomes, S.M. dan Santos, L. (2023) “Elevating Cereal-Based Nutrition: Moringa oleifera Supplemented Bread and Biscuits,” *Antioxidants*, 12(12). Tersedia pada: <https://doi.org/10.3390/antiox12122069>.

Gao, X., Xiao, Y., Li, W., Xu, L. dan Yuan, J. (2025) “Synergistic Effects of Antioxidant Blends: A Comparative Study on Oxidative Stability of Lipids in Feed Matrices,” *Antioxidants*, 14(8). Tersedia pada: <https://doi.org/10.3390/antiox14080981>.

Glicerina, V., Balestra, F., Dalla Rosa, M. dan Romani, S. (2016) “Microstructural and rheological characteristics of dark, milk and white chocolate: A comparative study,” *Journal of Food Engineering*, 169, hal. 165–171. Tersedia pada: <https://doi.org/10.1016/j.jfoodeng.2015.08.011>.

Gomaa, R.B.A. dan Rashed, N.M. (2016) “Post-Harvest Studies on Reducing Losses and Maintaining Quality of Packaging Roselle Calyxes,” *Journal of Sustainable Agricultural Sciences*, 42(4), hal. 68–86. Tersedia pada: <https://doi.org/10.21608/jsas.2016.3027>.

Gomes, S.M., Miranda, R. dan Santos, L. (2025) “Enhancing the Biological Properties of White Chocolate: Moringa oleifera Leaf Extract as a Natural Functional Ingredient,” *Foods*, 14(3), hal. 1–15. Tersedia pada: <https://doi.org/10.3390/foods14030359>.

Grebenteuch, S., Kroh, L.W., Drusch, S. dan Rohn, S. (2021) “Formation of secondary and tertiary volatile compounds resulting from the lipid oxidation of rapeseed oil,” *Foods*, 10(10). Tersedia pada: <https://doi.org/10.3390/foods10102417>.

Kokare, S.A., Kalamb, V.S., Bakal, R.L. dan Hatwar, P.R. (2025) “Hibiscus sabdariffa: A comprehensive review of its phytochemistry, traditional uses and therapeutic potentials,” *International Journal of Herbal Medicine*, 13(4), hal. 37–41. Tersedia pada: <https://doi.org/10.33545/26647613.2025.v7.i1d.80>.

Konar, N., Palabiyik, I., Karimidastjerd, A. dan Said Toker, O. (2024) “Chocolate microstructure: A comprehensive review,” *Food Research International*, 196(February). Tersedia pada:

<https://doi.org/10.1016/j.foodres.2024.115091>.

- Larasati, I.D., Carrera, C., Lioe, H.N., Estiasih, T., Yuliana, N.D., Manikharda, Daniel Ray, H.R., Palma, M. dan Setyaningsih, W. (2024) “Anthocyanin extraction from roselle (*Hibiscus sabdariffa* L.) calyces: A microwave-assisted approach using Box-Behnken design,” *Journal of Agriculture and Food Research*, 18(August). Tersedia pada: <https://doi.org/10.1016/j.jafr.2024.101480>.
- Larasati, I.D., Oktaviani, N.M.D.O., Lioe, H.N.L., Estiasih, T., Palma, M. dan Steyaningsih, W. (2023) “Optimization of Ultrasound-Assisted Cold-Brew Method for Developing Roselle (*Hibiscus sabdariffa* L.)-Based Tisane with High Antioxidant Activity,” 9(58).
- Lestari, P.D., Kawiji, Yulviatun, A., Martien, R. dan Muhammad, D.R.A. (2021) “Physical and sensory characteristics of milk and white compound chocolate added with Asian pigeonwings flower (*Clitoria ternatea*),” *E3S Web of Conferences*, 332. Tersedia pada: <https://doi.org/10.1051/e3sconf/202133201001>.
- Lončarević, I., Pajin, B., Fišteš, A., Tumbas Šaponjac, V., Petrović, J., Jovanović, P., Vulić, J. dan Zarić, D. (2018) “Enrichment of white chocolate with blackberry juice encapsulate: Impact on physical properties, sensory characteristics and polyphenol content,” *Lwt*, 92(February), hal. 458–464. Tersedia pada: <https://doi.org/10.1016/j.lwt.2018.03.002>.
- Muliasari, H., Hanifa, N.I., Hajrin, W., Andanalusia, M. dan Hidayati, A.R. (2023) “Determination of Antioxidants by DPPH Scavenging Activity of Ashitaba Herb (*Angelica keiskei*) Methanol Extract,” *Jurnal Biologi Tropis*, 23(4), hal. 482–490. Tersedia pada: <https://doi.org/10.29303/jbt.v23i4.5686>.
- Nizori, A., Adinda, V. dan Suseno, R. (2021) “Antioxidant Activity and Physico-Chemical of Dark Chocolate Made with Cocoa Butter Substitute (Cbs) from Virgin Coconut Oils,” 205(Gdic 2020), hal. 120–124.
- Nugraheni, T.S., Setiawan, I. dan Putri, A.A. (2024) “Tinjauan Artikel: Macam-Macam Metode Pengujian Aktivitas Antioksidan Article Various methods for testing antioxidant activity,” *Jurnal of Pharmacy*, 13(1), hal. 39–50.
- Okstaviyani, E., Lestari, P.D., Kawiji, K., Anandito, R.B.K., Yulviatun, A., Sefrienda, A.R. dan Muhammad, D.R.A. (2024) “Antioxidant, Physicochemical and Rheological Properties of White and Milk Chocolate Compounds Supplemented with Plant-Based Functional Ingredients,” *Foods*, 13(22). Tersedia pada: <https://doi.org/10.3390/foods13223694>.
- Olson, K.R., Gao, Y. dan Straub, K.D. (2021) “Oxidation of hydrogen sulfide by quinones: How polyphenols initiate their cytoprotective effects,”

International Journal of Molecular Sciences, 22(2), hal. 1–21. Tersedia pada: <https://doi.org/10.3390/ijms22020961>.

Osei-Kwarteng, M., Gweyi-Onyango, J.P. dan Mahunu, G.K. (2021) *Harvesting, storage, postharvest management, and marketing of Hibiscus sabdariffa, Roselle (Hibiscus sabdariffa): Chemistry, Production, Products, and Utilization*. Academic Press. Tersedia pada: <https://doi.org/10.1016/B978-0-12-822100-6.00010-0>.

Othón-Díaz, E.D., Fimbres-García, J.O., Flores-Sauceda, M., Silva-Espinoza, B.A., López-Martínez, L.X., Bernal-Mercado, A.T. dan Ayala-Zavala, J.F. (2023) “Antioxidants in Oak (*Quercus* sp.): Potential Application to Reduce Oxidative Rancidity in Foods,” *Antioxidants*, 12(4). Tersedia pada: <https://doi.org/10.3390/antiox12040861>.

Pangestu, C.T., Andriyono, S. dan Saputra, E. (2025) “Effect of Rosella (*Hibiscus Sabdariffa* L.) Addition on Antioxidant Activity and Acceptability of Pedada (*Sonneratia Caseolaris*) Slice Jam,” *Grouper*, 16(1), hal. 95–104. Tersedia pada: <https://doi.org/10.30736/grouper.v16i1.252>.

Pavlović, A.N., Mrmošanin, J.M., Krstić, J.N., Mitić, S.S., Tošić, S.B., Mitić, M.N., Arsić, B.B. dan Micić, R.J. (2017) “Effect of storage temperature on the decay of catechins and procyanidins in dark chocolate,” *Czech Journal of Food Sciences*, 35(4), hal. 360–366. Tersedia pada: <https://doi.org/10.17221/265/2016-CJFS>.

Polinski, S., Kowalska, S., Topka, P. dan Szydłowska-Czerniak, A. (2021) “and Bioaccessibility of Dark Chocolate with Plant Extracts,” *Molecules*, 26(18), hal. 5523.

Pombal, M., Marcet, I., Rendueles, M. dan Diaz, M. (2024) “Emulsifiers: Their Influence on the Rheological and Texture Properties in an Industrial Chocolate,” *Molecules*, 29(21), hal. 1–14. Tersedia pada: <https://doi.org/10.3390/molecules29215185>.

Quispe-Sanchez, L., Mestanza, M., Oliva-Cruz, M., Rimarachín, N., Caetano, A.C., Chuquizuta, T., Goñas, M., Ambler Gill, E.R. dan Chavez, S.G. (2023) “Oxidative stability and physicochemical changes of dark chocolates with essential oils addition,” *Heliyon*, 9(7). Tersedia pada: <https://doi.org/10.1016/j.heliyon.2023.e18139>.

Rajabi, H. dan Sedaghati, S. (2024) “Nutraceutical dark chocolate: A delivery system for double-encapsulated extracts of *Crocus sativus* L., *Rosa damascena*, *Melissa officinalis* L., and *Echium amoenum*,” *Lwt*, 198(October 2023). Tersedia pada: <https://doi.org/10.1016/j.lwt.2024.116036>.

- Reddy, U.K., Sohel, S.M., KG, R., BJ, D., G, B., S, S., G, V.A., A, A.K., P, H., K, Divya, K, Dharani, OVS, R., Ch, A. dan SDS, M. (2024) "Formulation and Evaluation of Herbs Infused Chocolate," *Mathews Journal of Pharmaceutical Science*, 8(3), hal. 1–9. Tersedia pada: <https://doi.org/10.30654/mjps.10040>.
- Septiano, A.F., Susilo dan Setyaningsih, N.E.S. (2021) "Analisis Citra Hasil Scanning Electron Microscopy Energy Dispersive X-Ray (SEM EDX) Komposit Resin Timbal dengan Metode Contrast to Noise Ratio (CNR)," *Indonesian Journal of Mathematics and Natural Sciences*, 44(2), hal. 81–85. Tersedia pada: <http://journal.unnes.ac.id/nju/index.php/JM>.
- Shahbazi, S., Didar, Z., Vazifedoost, M. dan Naji-Tabasi, S. (2022) "Enrichment of dark chocolate with free and microencapsulated white tea and jujube extracts: Impacts on antioxidant, physicochemical, and textural properties," *Quality Assurance and Safety of Crops and Foods*, 14(4), hal. 188–201. Tersedia pada: <https://doi.org/10.15586/qas.v14i4.1099>.
- Shin, S.Y., Hyeonbin, O., Joung, K.Y., Kim, S.Y. dan Kim, Y.S. (2021) "Effects of roselle (*Hibiscus sabdariffa* L.) Calyx extract on the physicochemical characteristics, antioxidant activity and consumer preference of yogurt dressing," *Progress in Nutrition*, 23(2). Tersedia pada: <https://doi.org/10.23751/pn.v23i2.8792>.
- Stobbs, J.A., Ghazani, S.M., Donnelly, M. dan Marangoni, A.G. (2025) "Chocolate Tempering: A Perspective."
- Sumartini, S., Hasibuan, N.E. dan Gurusmatika, S. (2021) "Karakteristik Thermal Shortening Minyak Biji Karet, Minyak Ikan, dan Stearin Sawit Menggunakan Differential Scanning Calorimetry (DSC)," *Jurnal Agritechno*, 14(01), hal. 26–35. Tersedia pada: <https://doi.org/10.20956/at.v14i1.400>.
- Tolve, R., Tchuenbou-Magaia, F.L., Sportiello, L., Bianchi, F., Radecka, I. dan Favati, F. (2022) "Shelf-Life Prediction and Thermodynamic Properties of No Added Sugar Chocolate Spread Fortified with Multiple Micronutrients," *Foods*, 11(15). Tersedia pada: <https://doi.org/10.3390/foods11152358>.
- Tukiran, Wardana, A.P., Hidayati, N. dan Shimizu, K. (2018) "An ellagic acid derivative and its antioxidant activity of chloroform extract of stem bark of *Syzygium polycephalum* Miq. (Myrtaceae)," *Indonesian Journal of Chemistry*, 18(1), hal. 26–34. Tersedia pada: <https://doi.org/10.22146/ijc.25467>.
- Wu, H.Y., Yang, K.M. dan Chiang, P.Y. (2018) "Roselle anthocyanins: Antioxidant properties and stability to heat and pH," *Molecules*, 23(6). Tersedia pada: <https://doi.org/10.3390/molecules23061357>.

- El Yamani, M., Sakar, E.H., Boussakouran, A. dan Rharrabti, Y. (2022) “Effect of storage time and conditions on the quality characteristics of ‘Moroccan Picholine’ olive oil,” *Biocatalysis and Agricultural Biotechnology*, 39(December 2021). Tersedia pada: <https://doi.org/10.1016/j.bcab.2021.102244>.
- Yeo, J.D., Jeong, M.K. dan Lee, J.H. (2012) “Correlation of antioxidant content and absorbance changes of DPPH during lipid oxidation,” *Food Science and Biotechnology*, 21(1), hal. 199–203. Tersedia pada: <https://doi.org/10.1007/s10068-012-0025-1>.