

DAFTAR PUSTAKA

- Abriyani, E., Fikayuniar, L., Fauziah, S., & Melinda, L. (2022). Skrining fitokimia dan profil KLT dari fraksi n-heksana dan etil asetat pada kulit *Pithecellobium jiringa* (Jack) Prain. *Jurnal Buana Farma*, 2(3), 8-13.
- Acharya, K. (2017). Simplified methods for microtiter based analysis of in vitro antioxidant activity. *Asian Journal of Pharmaceutics (AJP)*, 11(02).
- Alim, N., Hasan, T., Rusman, R., Jasmiadi, J., & Zulfitri, Z. (2022). Phytochemical Screening, Relationship of Total Phenolic with Antioxidant Activity Of Ethanol and Methanol Extracts of Kesambi (*Schleichera oleosa* (Lour.) Oken) Bark. *Jurnal Ilmiah Sains*, 22(2), 118-124.
- Anwar, K., Lokana, F. M., & Budiarti, A. (2022). Antioxidant Activity of Dewandaru Leaf (*Eugenia Uniflora* L.) Ethanol Extract and Determination of Total Flavonoid and Phenolic Content. *Jurnal Ilmiah Sains*, 161-171.
- Apak, R., Özyürek, M., Güçlü, K., & Çapanoğlu, E. (2016). Antioxidant activity/capacity measurement. 1. Classification, physicochemical principles, mechanisms, and electron transfer (ET)-based assays. *Journal of agricultural and food chemistry*, 64(5), 997-1027.
- Asworo, R. Y., & Widwiastuti, H. (2023). Pengaruh Ukuran Serbuk Simplesia dan Waktu Maserasi terhadap Aktivitas Antioksidan Ekstrak Kulit Sirsak. *Indonesian Journal of Pharmaceutical Education*, 3(2).
- Banjarnahor, S. D., & Artanti, N. (2014). Antioxidant properties of flavonoids. *Medical Journal of Indonesia*, 23(4), 239-44.
- Chellappan, D. K., Chellian, J., Leong, J. Q., Liaw, Y. Y., Gupta, G. ., Dua, K. ., Kunnath, A. P. ., & Palaniveloo, K. . (2020). Biological and therapeutic potential of the edible brown marine seaweed *Padina australis* and their pharmacological mechanisms. *Journal of Tropical Biology & Conservation (JTBC)*, 17, 251–271.
- El Rayess, Y., Barbar, R., Wilson, E. A., & Bouajila, J. (2014). Analytical methods for wine polyphenols analysis and for their antioxidant activity evaluation. *Wine: Phenolic Composition, Classification and Health Benefits*, 71-101.
- Fauziee, N. A. M., Chang, L. S., Mustapha, W. A. W., Nor, A. R. M., & Lim, S. J. (2021). Functional polysaccharides of fucoidan, laminaran and alginate from Malaysian brown seaweeds (*Sargassum polycystum*, *Turbinaria ornata* and *Padina boryana*). *International journal of biological molecules*, 167, 1135-1145.
- M., Son, K. T., Jeong, Y., & Jeon, Y. J. (2016). Antioxidant marine algal polyphenolic compounds: a mechanistic *Journal of medicinal food*, 19(7), 615-628.
- W., Baj, J., & Maciejewski, R. (2021). Antioxidants: on, natural sources, activity/capacity measurements, and for the synthesis of nanoparticles. *Materials*, 14(15), 4135.



- Gunathilake, T., Akanbi, T. O., Suleria, H. A., Nalder, T. D., Francis, D. S., & Barrow, C. J. (2022). Seaweed phenolics as natural antioxidants, aquafeed additives, veterinary treatments and cross-linkers for microencapsulation. *Marine Drugs*, 20(7), 445.
- Hasan, H., Akuba, J., & Ismail, F. S. (2023). Karakterisasi Metabolit Sekunder Daun Jarak Cina (*Jathropa Multifida Linn*) Serta Efektifitasnya Penyembuhan Luka Insisi. *Journal Syifa Sciences and Clinical Research (JSSCR)*, 5(1).
- Ilyasov, I. R., Beloborodov, V. L., Selivanova, I. A., & Terekhov, R. P. (2020). ABTS/PP decolorization assay of antioxidant capacity reaction pathways. *International journal of molecular sciences*, 21(3), 1131.
- Indracanti, M., ChV, S., & Sisay, T. (2019). A 96 well-microtiter plate abts based assay for estimation of antioxidant activity in green leafy vegetables.
- Handayani, S., Utomo, C., Nuraidah, N., Pramuliati, I., & Fahreza, A. (2020). Identification of Macro-Algae Species in Sindangkerta Beach, Tasikmalaya District, an Effort to Explore the Biodiversity of Indigenous Species. *Journal of Tropical Biodiversity*, 1(1), 1-13.
- Junopia, A. C., Natsir, H., & Dali, S. (2020, February). Effectiveness of brown algae *Padina australis* extract as antioxidant agent. In *Journal of Physics: Conference Series* (Vol. 1463, No. 1, p. 012012). IOP Publishing.
- Hardiningtyas, S. D., Purwaningsih, S., & Handharyani, E. (2020). Efek Durasi Waktu Ekstraksi dan Fraksinasi terhadap Aktivitas Antioxidan Daun Bakau Api-API Putih (*Avicennia marina*). *JPB Kelautan dan Perikanan*, 15(2), 99-106.
- Kang, S. M., Heo, S. J., Kim, K. N., Lee, S. H., & Jeon, Y. J. (2012). Isolation and identification of new compound, 2, 7 "-phloroglucinol-6, 6'-bieckol from brown algae, *Ecklonia cava* and its antioxidant effect. *Journal of functional foods*, 4(1), 158-166.
- Kholifah, E., Nurazizah, D., & Noviyanto, F. (2023). Antioxidant activity and vitamin C concentration analysis of gandaria (*Bouae macrophylla griff*) ethanol extract using spectrophotometry UV Vis. *Journal of Fundamental and Applied Pharmaceutical Science*, 3(2), 54-63.
- Klimjit, A., Praiboon, J., Tiengrim, S., Chirapart, A., & Thamlikitkul, V. (2021). Phytochemical composition and antibacterial activity of brown seaweed, *Padina australis* against human pathogenic bacteria.
- Koduvayur Habeebullah, S. F., Surendraraj, A., & Jacobsen, C. (2018). Isolation of polyphenols from brown algae and its antioxidant activity: in vitro and 5% water emulsion. *Journal of the American Oil Chemists' Society*, 95(7), 835-843.
- Latmo, N. H., & Tahir, A. (2019, October). Preliminary study: *Padina australis* Hauck's antibacterial activity and phytochemical test against pathogenic shrimp bacteria. In *Journal of Physics: Conference Series* (Vol. 1341, No. 2, p. 022005). IOP Publishing.



- Liu, X., Yuan, W., Sharma-Shivappa, R., & van Zanten, J. (2017). Antioxidant activity of phlorotannins from brown algae. *International Journal of Agricultural and Biological Engineering*, 10(6), 184-191.
- Lourenço, S. C., Moldão-Martins, M., & Alves, V. D. (2019). Antioxidants of natural plant origins: From sources to food industry applications. *Molecules*, 24(22), 4132.
- Lenoera, A., Panjaitan, R. S., & Purwati, P. Extraction, Phytochemical Profiling, and Antibacterial Activity of n-Hexane Crude Extracts of Macroalgae *Padina australis*.
- Mingle, C. E., & Newsome, A. L. (2020). An amended potassium persulfate ABTS antioxidant assay used for medicinal plant extracts revealed variable antioxidant capacity based upon plant extraction process. *BioRxiv*, 2020-07.
- Kusumorini, N., Nugroho, A. K., Pramono, S., & Martien, R. (2022). Determination of The Potential Antioxidant Activity of Isolated Piperine from White Pepper Using DPPH, ABTS, and FRAP Methods. *Majalah Farmaseutik*, 18(4), 454-461.
- Magdaleni, A. R., & Daniel, D. (2021). Aktivitas antioksidan fraksi metanol ekstrak batang merung (*Coptosapelta tomentosa* (Blume) Valenton ex K. Heyne). *Jurnal Kartika Kimia*, 4(1), 28-32.
- Maharany, F., Nurjanah, S. R., Anwar, E., & Hidayat, T. (2017). Kandungan senyawa bioaktif rumput laut *Padina australis* dan *Eucheuma cottonii* sebagai bahan baku krim tabir surya. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 20(1), 10-17.
- Molyneux, P. (2004). The use of the stable free radical diphenylpicrylhydrazyl (DPPH) for estimating antioxidant activity. *Songklanakarin J. sci. technol*, 26(2), 211-219.
- Munteanu, I. G., & Apetrei, C. (2021). Analytical methods used in determining antioxidant activity: A review. *International journal of molecular sciences*, 22(7), 3380.
- Nugroho, A. 2017. Buku Ajar: Teknologi Bahan Alam. Banjarmasin: Lambung Mangkurat University Press
- Othman, R., Amin, N. A. M., Bakar, A. E. A., Fadzillah, N. A., & Mahmad, N. (2019). Carotenoid Pigments of Red, Green and Brown Macroalgae Species as Potential Active Pharmaceutical Ingredients. *Journal of Pharmacy and Nutrition Sciences*, 9(1), 14-19.
- Osha, M., Marudhupandi, T., Rajasekar, P., & Prabhu, N. M. (2018). Isolation of fucoidan from *Sargassum polycystum* brown algae: characterization, in vitro antioxidant and anticancer properties. *International journal of biological macromolecules*, 102, 405-412.



- Prastyo, D. T., & Trilaksani, W. (2020). Aktivitas antioksidan hidrolisat kolagen kulit ikan nila (*Oreochromis niloticus*). *Jurnal Pengolahan Hasil Perikanan Indonesia*, 23(3), 423-433.
- Qu, G., Liu, X., Wang, D., Yuan, Y. I., & Han, L. (2014). Isolation and characterization of fucoidans from five brown algae and evaluation of their antioxidant activity. *Journal of Ocean University of China*, 13, 851-856.
- Rajauria, G., Foley, B., & Abu-Ghannam, N. (2016). Identification and characterization of phenolic antioxidant compounds from brown Irish seaweed *Himanthalia elongata* using LC-DAD-ESI-MS/MS. *Innovative food science & emerging technologies*, 37, 261-268.
- Riswanto, B., & Aminah, S. (2020). Utilization of kalpataru flower extract (*hura crepitans linn*) as an alternative acid base indicator. *Jurnal Akademika Kimia*, 9(3), 148-157.
- Ritna, A., Anam, S., & Khumaidi, A. (2016). Identifikasi senyawa flavonoid pada fraksi etil asetat benalu batu (*Begonia sp.*) asal kabupaten morowali utara. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy)(e-Journal)*, 2(2), 83-89.
- Savira, A. D. R., Amin, M. N. G., & Alamsjah, M. A. (2021, March). The effect of different type of solvents on the antioxidant activity of fucoxanthin extract from brown seaweed *Sargassum duplicatum*. In *IOP Conference Series: Earth and Environmental Science* (Vol. 718, No. 1, p. 012010). IOP Publishing.
- Sari, S. A., Ernita, M., Mara, M. N., & AR, M. R. (2020). Identification of active compounds on *Muntingia calabura* L. leaves using different polarity solvents. *Indonesian Journal of Chemical Science and Technology*, 3(1), 1-7.
- Sheikhzadeh, N., Ahmadifar, E., Soltani, M., Tayefi-Nasrabadi, H., Mousavi, S., & Nael, M. A. (2022). Brown seaweed *Padina australis* extract can promote performance, innate immune responses, digestive enzyme activities, intestinal gene expression and resistance against *Aeromonas hydrophila* in common carp (*Cyprinus carpio*). *Animals*, 12(23), 3389.
- Sukweenadhi, J., Setiawan, F., Yunita, O., Kartini, K., & Avanti, C. (2020). Antioxidant activity screening of seven Indonesian herbal extract. *Biodiversitas*, 21(5), 2062-2067.
- Theafelicia, Z., & Wulan, S. N. (2023). Perbandingan Berbagai Metode Pengujian Aktivitas Antioksidan (Dpph, Abts Dan Frap) Pada Teh Hitam (*Camellia sinensis*). *Jurnal Teknologi Pertanian*, 24(1), 35-44.
- Mahendra, C. K., Goh, B. H., Gew, L. T., & Yow, Y. Y. (2021). Evaluation of the protective effect of brown Alga *Padina australis*: A potential topical application of Malaysian Seaweed. *Cosmetics*, 8(3), 58.
- Jahar, L., Sarker, S. D., Phosri, C., Evans, A. R., Solomon, K., & Suwannasai, N. (2021). Antioxidant activity and



cytotoxicity against cancer cell lines of the extracts from novel Xylaria species associated with termite nests and LC-MS analysis. *Antioxidants* 10: 101557.

Zailanie, K. (2016). Study of *Padina australis* using UV-VIS, HPLC and antibacterial. *J Life Sci Biomed*, 6(1), 1-5.

Zeb, A. (2020). Concept, mechanism, and applications of phenolic antioxidants in foods. *Journal of Food Biochemistry*, 44(9), e13394.



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