

DAFTAR PUSTAKA

- Ali, N. A., & Halimah, E. (2020). Berbagai Aktivitas Farmakologi Tanaman Jombang (*Taraxacum officinale* Webb.). *Farmaka*, 18(1), 85-93.
- Angraini, N., & Yanti, F. (2021). Penggunaan spektrofotometer Uv-Vis untuk analisis nutrien fosfat pada sedimen dalam rangka pengembangan modul praktikum oseanografi kimia. *Jurnal Penelitian Sains*, 23(2), 78-83.
- Artanti, N., Dewi, R. T., & Maryani, F. (2014). Pengaruh lokasi dan pelarut pengekstraksi terhadap kandungan fitokimia dan aktivitas antioksidan ekstrak pegagan (*Centella asiatica* L. Urb). *Jurnal Kimia Terapan Indonesia*, 16(2), 88-82.
- Asih, D. J., Warditiani, N. K., & Wiarsana, I. G. S. (2022). Review Artikel: Aktivitas Antioksidan Ekstrak Amla (*Phyllanthus emblica/Emblica officinalis*). *Humantech: Jurnal Ilmiah Multidisiplin Indonesia*, 1(6), 674-687.
- Badan Pusat Statistik Kabupaten Karanganyar. (2023). Jenis Tanah Menurut Kecamatan di Kabupaten Karanganyar. Terdapat di: <https://karanganyarkab.bps.go.id/statictable/2019/11/20/121/jenis-tanah-menurut-kecamatan-di-kab-karanganyar-2018.html>. [Diakses pada 16 Juni 2023]
- Barton, B. dan Peat, J. (2014). *Medical Statistics, A Guide to SPSS, Data Analysis and Critical Appraisal*, Blackwell Publishing Ltd., United Kingdom
- Biel, W., Jaroszewska, A., Łysoń, E., & Telesiński, A. (2017). The chemical composition and antioxidant properties of common dandelion leaves compared with sea buckthorn. *Canadian Journal of Plant Science*, 97(6), 1165-1174.
- Blois MS. (2005). Antioxidant determination by the use of stable free radical. *Nature* 181:1191- 1200.
- Chandra, S., Khan, S., Avula, B., Lata, H., Yang, M. H., Elsohly, M. A., & Khan, I. A. (2014). Assessment of total phenolic and flavonoid content, antioxidant properties, and yield of aerponically and conventionally

grown leafy vegetables and fruit crops: A comparative study. *Evidence-Based Complementary and Alternative Medicine*. <https://doi.org/10.1155/2014/253875>.

- Sania Krisanta, C., Luh, N., Yusasrini, A., Nengah, I., Putra, K., Studi, P., Pangan, T., Pertanian, T., Kampus, U., Jimbaran, B., & -Bali, B. (n.d.). Online) Clara Sania Krisanta dkk. In *Itepa* (Vol. 10, Issue 4).
- Fauziah, A., Sudirga, S. K., & Parwanayoni, N. M. S. Uji Antioksidan Ekstrak Daun Tanaman Leunca (*Solanum nigrum* L.), *Journal of Biological Sciences*, 8(1): 28-34
- Fidrianny, I., Suhendy, H., & Insanu, M. (2018). Correlation of phytochemical content with antioxidant potential of various sweet potato (Ipomoea batatas) in West Java, Indonesia. *Asian Pacific Journal of Tropical Biomedicine*, 8(1), 25. <https://doi.org/10.4103/22211691.221131>
- Gandjar, Ibnu Gholib dan Rohman, Abdul. (2018). *Spektroskopi Molekuler untuk Analisis Farmasi*, Gadjah Mada University, Yogyakarta.
- Ghaima, K. K., Hashim, N. M., & Ali, S. A. (2013). Antibacterial and antioxidant activities of ethyl acetate extract of nettle (*Urtica dioica*) and dandelion (*Taraxacum officinale*). *Journal of Applied Pharmaceutical Science*, 3(5), 096-099.
- Haminiuk, C., Maciel, G., Plato-Oviedo, M., and Peralta, R. (2012). Phenolic compounds in fruits - An overview. *International Journal of Food Science and Technology*, 47 (10): 2023-2044.
- Haryati N, Saleh C, Erwin. (2015). Uji toksisitas dan aktivitas antibakteri ekstrak daun merah tanaman Pucuk Merah (*Syzygium myrtifolium* Walp.) terhadap bakteri *Staphylococcus aureus* dan *Escherichia coli*, *Jurnal Kimia Mulawarman*, 13: 35–40.
- Hermund, D. B. (2018). Antioxidant properties of seaweed-derived substances, In *Bioactive seaweeds for food applications*, Academic Press, (pp. 201-221)

- Hidayat, M. A., Fitri, A., & Kuswandi, B. (2017). Scanometry as microplate reader for high throughput method based on DPPH dry reagent for antioxidant assay. *Acta pharmaceutica sinica B*, 7(3), 395-400.
- Integrated Taxonomic Information System (ITIS). (2022). *Taraxacum officinale*, terdapat di: pada https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=36213&print_version=PRT&source=to_print#null (Diakses pada 29 Agustus 2022)
- Irawan, A. (2019). Kalibrasi Spektrofotometer Sebagai Penjaminan Mutu Hasil Pengukuran Dalam Kegiatan Penelitian Dan Pengujian, *Indonesian Journal of Laboratory*, 1(2), 1-9.
- Ishfaq, S., et al., 2018, Antioxidant activities and inhibitory effect of *Taraxacum officinale*, *Cichorium intybus* and *Lectuca sativa* on prooxidant induced lipid peroxidation in mice liver. *Croatian journal of food science and technology*, 10(1), 16-22.
- Iqbal, E., Salim, K.A. and Lim, L.B.L. (2015). Phytochemical Screening, Total Phenolics and Antioxidant Activities of Bark and Leaf Extracts of *Goniothalamus velutinus* (Airy Shaw) from Brunei Darussalam. *Journal of King Saud University-Science*, 27, 224-232.
- Kamal, F. Z. et al. (2022). Chemical Composition, Antioxidant and Antiproliferative Activities of Taraxacum officinale Essential Oil. *Molecules*, 27(19), 6477.
- Kementerian Kesehatan RI. (2017). *Farmakope Herbal Indonesia Edisi II*, Kementerian Kesehatan RI, Jakarta.
- Kemenkes Kesehatan RI (2018). Hasil Riset Kesehatan Dasar (RISKESDAS) 2018, Badan Penelitian dan Pengembangan Kesehatan Republik Indonesia, Jakarta.
- Kurutas, E.B. (2015). The importance of antioxidants which play the role in cellular response against oxidative/nitrosative stress: Current state. *Nutr. J*, 15, 71.

- Koh, Y-j., Cha, D-S., Ko, J-S., Park, H-J., Choi, H-E. (2010). Anti-inflammatory effects of *Taraxacum officinale* leaves on lipopolysaccharide-induced inflammatory responses in RAW 264.7 cells. *Journal of Medicinal Food*, 13(4): 870-878
- Lakoro, J. E., Runtuwene, M. R., & Yamlean, P. V. (2020). Uji Aktivitas Antioksidan dan Penentuan Total Kandungan Fenolik Ekstrak Etanol Daun Nanamuha (*Bridelia monoica Merr.*). *PHARMACON*, 9(2), 178-183.
- Lallo, S., Lewerissa, A. C., Rafi'i, A., Usman, U., Ismail, I., & Tayeb, R. (2019). Pengaruh ketinggian tempat tumbuh terhadap aktivitas antioksidan dan sitotoksik ekstrak rimpang lengkuas (*Alpinia galanga* L.). *Majalah Farmasi Dan Farmakologi*, 23(3), 118-123.
- Leyane, T. S., Jere, S. W., & Houreld, N. N. (2022). Oxidative Stress in ageing and chronic degenerative pathologies: Molecular mechanisms involved in counteracting oxidative stress and chronic inflammation. *International Journal of Molecular Sciences*, 23(13), 7273.
- Majewski, M., Lis, B., Juśkiewicz, J., Ognik, K., Borkowska-Sztachańska, M., Jedrejek, D. & Olas, B. (2020). Phenolic fractions from dandelion leaves and petals as modulators of the antioxidant status and lipid profile in an in vivo study, *Antioxidants*, 9(2), 131.
- Menkes RI. (2010). Peraturan Menteri Kesehatan Republik Indonesia Nomor 003/MENKES/PER/I/2010 Tentang Saintifikasi Jamu Dalam Penelitian Berbasis Pelayanan Kesehatan.
- Mir, M. A., Sawhney, S. S., & Jassal, M. M. S. (2013). Qualitative and quantitative analysis of phytochemicals of *Taraxacum officinale*. *Wudpecker Journal of Pharmacy and Pharmacology*, 2(1), 001-005.
- Mondong, F. R. (2015). Skrining fitokimia dan uji aktivitas antioksidan ekstrak etanol daun Patikan Emas (*Euphorbia pruinifolia* Jacq.) dan bawang laut (*Proiphys amboinensis* (L.) Herb). *Jurnal MIPA*, 4(1), 81-87.
- Mukhriani. (2014). Ekstraksi, Pemisahan Senyawa, dan Identifikasi Senyawa Aktif, Jurnal-Kesehatan Vol VII No. 2, Fakultas Ilmu Kesehatan UIN Alaudin Makassar, Makassar.

- Munteanu, I. G., and Apetrei, C. (2021). Analytical methods used in determining antioxidant activity: A review. *International Journal of Molecular Sciences*, 22(7), 3380.
- Muthmainnah, B. (2019). Skrining fitokimia senyawa metabolit sekunder dari ekstrak etanol buah delima (*Punica granatum L.*) dengan metode uji warna. *Media Farmasi*, 13(2), 36-41.
- National Center for Biotechnology Information. (2022). *Phenol*, Terdapat di: <https://pubchem.ncbi.nlm.nih.gov/compound/Phenol> [Diakses pada 19 Desember 2022]
- Nowak, A. *et al.* (2019)> The antioxidant activity of ethanolic and aqueous extracts of dandelion (L.). *Pomeranian Journal of Life Sciences*, 65(4), 83-88.
- Morley, T.I., 1974, *Spring Flora of Minnesota*, University of Minnesota press, Minneapolis MN.
- Panche, A., Diwan, A., & Chandra, S. (2016). Flavonoids: An overview, *Journal of Nutritional Science*, 5, E47. doi:10.1017/jns.2016.41
- Pramudita, Riwanti, Farizah Izazih, Amaliyah. (2020). Pengaruh Perbedaan Konsentrasi Etanol pada Kadar Flavonoid Total Ekstrak Etanol 50,70 dan 96% *Sargassum polycystum* dari Madura. *Journal of Pharmaceutical Care Anwar Medika*, 02 : 82-95.
- Purwaningsih, S. (2012). Aktivitas antioksidan dan komposisi kimia keong matah merah (*Cerithidea obtusa*). *Jurnal Ilmu Kelautan*, 17(1), 39-48.
- Putri, D. M., & Lubis, S. S. (2020). Skrining Fitokimia Ekstrak Etil Asetat Daun Kalayu (*Erioglossum rubiginosum* (Roxb.) Blum). *Amina*, 2(3), 120-125.
- Safrina, D. (2018). Pengaruh ketinggian tempat tumbuh dan pengeringan terhadap flavonoid total sambang colok (*Iresine herbstii*). *Indonesian Journal of Agricultural Postharvest Research*, 15(3), 277140.
- Saleh, C., Sestiani, M., & Erwin, E. (2023). Aktivitas Ekstrak Metanol Daun Alang-Alang (*Imperata cylindrica* (L.) P. Beauv) sebagai Antinflamasi: Activity of Alang-Alang (*Imperata cylindrica* (L.) P. Beauv) Leaves

- Methanol Extract as Anti-inflammatory. *Jurnal Sains dan Kesehatan*, 5(3), 290-296.
- Sari, A. N., Kusdianti, K., & Diningrat, D. S. (2018). Potensi Antioksidan Alami pada Ekstrak Kulit Buah Jamblang (*Syzygium cumini* (L.) Skeels) Menggunakan Metode DPPH (The Potency of Natural Antioxidant in The Rind Extract of Jamblang (*Syzygium cumini* (L.) Skeels) using DPPH Method). *JURNAL BIOS LOGOS*, 8(1).
- Sayuti, K. and Rina Yenrina (2015). *Antioksidan Alami dan Sintetik*, Andalas University Press, Padang.
- Schutz, K., R. Carle, & A. Schieber. (2006). Taraxacum -A review on its phytochemical and pharmacological profile. *Journal of Ethnopharmacology*, 107: 313 -323.
- Setyaningsih D, Pandji C, Perwatasari DD. (2014). Kajian Aktivitas Antioksidan dan Antimikroba Fraksi dan Ekstrak dari Daun dan Ranting Jarak Pagar (*Jatropha curcas* L.), *Agritech*, 34(02): 126-137.
- Sharma, O.P. and Bhat, T.K. (2009). DPPH antioxidant assay revisited. *Food Chemistry*. 113(4): 1202- 1205
- Shidoji, Y, and Ogawa, H. (2004). Natural occurrence of cancer-preventive geranylgeranoic acid in medicinal herbs. *The Journal of Lipid Research*, 45: 1092–1103.
- Simaremare, E. S. (2014). Skrining fitokimia ekstrak etanol daun gatal (Laportea decumana (Roxb.) Wedd). *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, 11(1).
- Singh, J.P., Kaur, A., Shevkani, K., and Singh, N. (2015). Influence of jambolan (*Syzygium cumini*) and xanthan gum incorporation on the physicochemical, antioxidant and sensory properties of gluten-free eggless rice muffins, *International Journal of Food Science and Technology*, 50 (5): 1190-1197.
- Singh, J.P., et al. (2016). In vitro antioxidant and antimicrobial properties of jambolan (*Syzygium cumini*) fruit polyphenols, *LWT*, 65 (January): 1025-1030.

- Sirivibulkovit, K., Nouanthavong, S., & Sameenoi, Y. (2018). based DPPH assay for antioxidant activity analysis. *Analytical sciences*, 34(7), 795-800.
- Susantiningsih, T. (2015). Obesitas dan stres oksidatif. *JuKe Unila*, 5(9), 89-93.
- Sukweenadhi, J. *et al.* (2020). Antioxidant activity screening of seven Indonesian herbal extract. *Biodiversitas*, 21(5), 2062-2067.
- Tiwari *et al.* (2011). Phytochemical Screening and Extraction: A Review, *International Pharmaceutica Sciencia*, Vol, 1: Issue 1
- Udin M. (2019). Environmental Factors on Secondary Metabolism of Medicinal Plants. *Acta Scientific Pharmaceutical Science*, 3(8), 34-46.
- Verma, N. and Shukla, S. (2015). Impact of various factors responsible for fluctuation in plant secondary metabolites, *Journal of Applied Research on Medicinal and Aromatic Plants*, 2(4), pp.105-113.
- Wahyulianingsih, W., Handayani, S., & Malik, A. (2016). Penetapan kadar flavonoid total ekstrak daun cengkeh (*Syzygium aromaticum* (L.) Merr & Perry). *Jurnal Fitofarmaka Indonesia*, 3(2), 188-193.
- Wardhani, R.A.P., & Supartono. (2015). Uji aktivitas Antibakteri Ekstrak Kulit Buah Rambutan (*Nephelium lappaceum*L.) pada Bakteri. *Indonesian Journal of Chemical Science*, 4(1):46–51.
- Wright, J.S.; Johnson, A.E.R.; DiLabio, G.A. (2001). Predicting the Activity of Phenolic Antioxidants: Theoretical Method, Analysis of Substituent Effects, and Application to Major Families of Antioxidants. *J. Am. Chem. Soc.*
- Qureshi, S. *et al.* (2017). Beneficial uses of dandelion herb (*Taraxacum officinale*) in poultry nutrition, *World's Poultry Science Journal*, 73(3), 591-602.
- Zhang QW, Lin LG, Ye WC. (2018). Techniques for extraction and isolation of natural products: a comprehensive review. *Chin Med*, 13:20. doi: 10.1186/s13020-018-0177-x. PMID: 29692864; PMCID: PMC5905184.
- Zulaikhah, S. T. (2017). The role of antioxidants to prevent free radicals in the body. *Sains Medika*, 8(1), 39-45.