

## DAFTAR PUSTAKA

- Abubakar, A., & Haque, M. (2020). Preparation of medicinal plants: Basic extraction and fractionation procedures for experimental purposes. *Journal of Pharmacy And Bioallied Sciences*, 12(1), 1. [https://doi.org/10.4103/jpbs.JPBS\\_175\\_19](https://doi.org/10.4103/jpbs.JPBS_175_19)
- Akar, Z., Küçük, M., & Doğan, H. (2017). A new colorimetric DPPH \* scavenging activity method with no need for a spectrophotometer applied on synthetic and natural antioxidants and medicinal herbs. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 32(1), 640–647. <https://doi.org/10.1080/14756366.2017.1284068>
- Benabdallah, A., Rahmoune, C., Boumendjel, M., Aissi, O., & Messaoud, C. (2016). Total phenolic content and antioxidant activity of six wild Mentha species (Lamiaceae) from northeast of Algeria. *Asian Pacific Journal of Tropical Biomedicine*, 6(9), 760–766. <https://doi.org/10.1016/j.apjtb.2016.06.016>
- Bobo-García, G., Davidov-Pardo, G., Arroqui, C., Vírveda, P., Marín-Arroyo, M. R., & Navarro, M. (2015). Intra-laboratory validation of microplate methods for total phenolic content and antioxidant activity on polyphenolic extracts, and comparison with conventional spectrophotometric methods: Comparison of microplate and conventional methods for Folin- Ciocalteu and DPPH. *Journal of the Science of Food and Agriculture*, 95(1), 204–209. <https://doi.org/10.1002/jsfa.6706>
- Bylka, W., Znajdek-Awiżeń, P., Studzińska-Sroka, E., & Brzezińska, M. (2013). *Centella asiatica* in cosmetology. *Advances in Dermatology and Allergology*, 1, 46–49. <https://doi.org/10.5114/pdia.2013.33378>
- Cardoso-Ugarte, G. A., Juárez-Becerra, G. P., SosaMorales, M. E., & López-Malo, A. (2013). Microwave-assisted Extraction of Essential Oils from Herbs. *Journal of Microwave Power and Electromagnetic Energy*, 47(1), 63–72. <https://doi.org/10.1080/08327823.2013.11689846>
- Chairunnisa, S., Wartini, N. M., & Suhendra, L. (2019). Pengaruh Suhu dan Waktu Maserasi terhadap Karakteristik Ekstrak Daun Bidara (*Ziziphus mauritiana* L.) sebagai Sumber Saponin. *Jurnal rekayasa dan manajemen agroindustri*, 7(4), 551. <https://doi.org/10.24843/JRMA.2019.v07.i04.p07>
- Gupta, A., Naraniwal, M., & Kothari, V. (2012). Modern extraction methods for preparation of bioactive plant extracts. 20.
- Hapsari, W. S., Yuliasuti, F., & Pradani, M. P. K. (2017). Skrining Fitokimia Ekstrak Etanol Herba Pegagan dan Analisa Rendemen. 6.
- Hartanti, D., & Theeravit, J. (2018). Ekstraksi Kayu Artocarpus lakoocha: Pengaruh Metode Dan Rasio Bahan Tumbuhan-Penyari Terhadap Rendemen Ekstraksi. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, 15(1), 50. <https://doi.org/10.30595/pharmacy.v15i1.2813>
- Hossain, M. A., Shah, M. D., Gnanaraj, C., & Iqbal, M. (2011). In vitro total phenolics, flavonoids contents and antioxidant activity of essential oil, various organic extracts from the leaves of tropical medicinal plant Tetrastigma from Sabah. *Asian Pacific Journal of Tropical Medicine*, 4(9), 717–721. [https://doi.org/10.1016/S1995-7645\(11\)60180-6](https://doi.org/10.1016/S1995-7645(11)60180-6)

- Iqbal, E., Salim, K. A., & 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(3), 224–232. <https://doi.org/10.1016/j.jksus.2015.02.003>
- Jatayu, D., Nursyam, H., & Maizar Suryanto Hertika, A. (2018). Antioxidant Effect of *Centella asiatica* Ethanolic Extract to Superoxide Dismutase (SOD) Level on *Cyprinus carpio* Liver. *Research Journal of Life Science*, 5(3), 163–172. <https://doi.org/10.21776/ub.rjls.2018.005.03.4>
- Kedare, S. B., & Singh, R. P. (2011). Genesis and development of DPPH method of antioxidant assay. *Journal of Food Science and Technology*, 48(4), 412–422. <https://doi.org/10.1007/s13197-011-0251-1>
- Kumari, S., Deori, M., Elancheran, R., Kotoky, J., & Devi, R. (2016). In vitro and In vivo Antioxidant, Anti-hyperlipidemic Properties and Chemical Characterization of *Centella asiatica* (L.) Extract. *Frontiers in Pharmacology*, 7. <https://doi.org/10.3389/fphar.2016.00400>
- Li, Y., Li, S., Lin, S.-J., Zhang, J.-J., Zhao, C.-N., & Li, H.-B. (2017). Microwave-Assisted Extraction of Natural Antioxidants from the Exotic *Gordonia axillaris* Fruit: Optimization and Identification of Phenolic Compounds. *Molecules*, 22(9), 1481. <https://doi.org/10.3390/molecules22091481>
- Lohitasari, B. (2012). Formulasi granul instan ekstrak herba pegagan (*Centella asiatica*) dan analisis asiatikosida. 12, 7.
- Lotulung, P. D. N., Handayani, S., Ernawati, T., Yuliani, T., Artanti, N., & Mozef, T. (2015). Standardisasi ekstrak pegagan, *Centella asiatica* sebagai obat herbal terstandar hepatoprotektor. *Jurnal Kimia Terapan Indonesia*, 17(2), 185–193. <https://doi.org/10.14203/jkti.v17i2.34>
- Mareta, C. A. (2020). Efektifitas pegagan (*Centella asiatica*) sebagai antioksidan. 5.
- Maruzy, A., Budiarti, M., & Subositi, D. (2020). Autentikasi *Centella asiatica* (L.) Urb. (Pegagan) dan Adulterannya Berdasarkan Karakter Makroskopis, Mikroskopis, dan Profil Kimia. *Jurnal Kefarmasian Indonesia*, 19–30. <https://doi.org/10.22435/jki.v10i1.1830>
- Ngibad, K., & Lestari, L. P. (2020). Aktivitas Antioksidan dan Kandungan Fenolik Total Daun Zodia (*Evodia suaveolens*). *ALCHEMY Jurnal Penelitian Kimia*, 16(1), 94. <https://doi.org/10.20961/alchemy.16.1.35580.94-109>
- Parbuntari, H., Prestica, Y., Gunawan, R., Nurman, M. N., & Adella, F. (2018). Preliminary Phytochemical Screening (Qualitative Analysis) of Cacao Leaves (*Theobroma cacao* L.). *EKSAKTA: Berkala Ilmiah Bidang MIPA*, 19(2), 40–45. <https://doi.org/10.24036/eksakta/vol19-iss2/142>
- Prasad, A., Dhawan, S. S., Mathur, A. K., Prakash, O., Gupta, M. M., Verma, R. K., Lal, R. K., & Mathur, A. (2014). Morphological, Chemical and Molecular Characterization of *Centella asiatica* Germplasms for Commercial Cultivation in the Indo-Gangetic Plains. *Natural Product Communications*, 9(6), 1934578X1400900. <https://doi.org/10.1177/1934578X1400900612>
- Quyên, N. T. C., Quyên, N. T. N., Quy, N. N., & Quan, P. M. (2020). Evaluation of total polyphenol content, total flavonoid content, and antioxidant activity of *Centella*

- asiatica*. *IOP Conference Series: Materials Science and Engineering*, 991, 012020. <https://doi.org/10.1088/1757-899X/991/1/012020>
- Rachmatiah, T., Putri, F. E., & Dewi, R. T. (2015). Activity of ethanol and methanol extracts from red pegagan leaves (*Centella asiatica* (L.)Urban. Var Manoko) as in vitro antioxidant and anti diabetic. 8(2), 4.
- Rifai, G., Rai Widarta, I. W., & Ayu Nocianitri, K. (2018). Pengaruh jenis pelarut dan rasio bahan dengan pelarut terhadap kandungan senyawa fenolik dan aktivitas antioksidan ekstrak biji alpukat (*Persea americana* mill.). *Jurnal Ilmu dan Teknologi Pangan (ITEPA)*, 7(2), 22. <https://doi.org/10.24843/itepa.2018.v07.i02.p03>
- Sapiun, Z., Pangalo, P., K. Imran, A., Wicita, P. S., & Astuti Daud, R. P. (2020). Determination of Total Flavonoid Levels of Ethanol Extract Sesewanua Leaf (*Clerodendrum Fragrans* Wild) With Maceration Method Using UV-Vis Spectrofotometry. *Pharmacognosy Journal*, 12(2), 356–360. <https://doi.org/10.5530/pj.2020.12.56>
- Saputri, I., & Damayanthi, E. (2015). Konsentrasi dan pengaruhnya terhadap sifat fisiko-kimia cookies sagu. 10, 8.
- Shalaby, A. (2013). Antioxidant compounds, assays of determination and mode of action. *African Journal of Pharmacy and Pharmacology*, 7(10), 528–539. <https://doi.org/10.5897/AJPP2013.3474>
- Silva, G. O. D., Abeysundara, A. T., & Aponso, M. M. W. (2017). Extraction methods, qualitative and quantitative techniques for screening of phytochemicals from plants. 4.
- Sinala, S., & Dewi, S. T. R. (2019). Penentuan aktivitas antioksidan secara in vitro dari ekstrak etanol propolis dengan metode DPPH (1,1-Difenil-2-Pikrilhidrazil). *Media Farmasi*, 15(1), 91. <https://doi.org/10.32382/mf.v15i1.820>
- Susanty, S., & Bachmid, F. (2016). Perbandingan metode ekstraksi maserasi dan refluks terhadap kadar fenolik dari ekstrak tongkol jagung (*Zea mays* L.). *jurnal konversi*, 5(2), 87. <https://doi.org/10.24853/konversi.5.2.87-92>
- Sutardi, S. (2017). Kandungan Bahan Aktif Tanaman Pegagan dan Khasiatnya untuk Meningkatkan Sistem Imun Tubuh. *Jurnal Penelitian dan Pengembangan Pertanian*, 35(3), 121. <https://doi.org/10.21082/jp3.v35n3.2016.p121-130>
- Swintari, N. W., Yuliet, Y., & Khaerati, K. (2017). Aktivitas Kombinasi Ekstrak Etanol Daun Sirsak (*Annona muricata* L.) Dan Daun Pegagan (*Centella asiatica* L.Urb) Terhadap Kelarutan Kalsium Batu Ginjal Secara In Vitro: Activity of Ethanol Extract Combination Between Soursop (*Annona muricata* L.) Leaves and Gotu Kola (*Centella asiatica* L.Urb ) Leaves on The Solubility of Kidney Stone Calcium In Vitro. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 3(1), 34–42. <https://doi.org/10.22487/j24428744.2017.v3.i1.8137>
- Trisna Rahayu, N. K., Mayun Permana, I. D. G., & Diah Puspawati, GA. K. (2020). Pengaruh waktu maserasi terhadap aktivitas antioksidan ekstrak daun pegagan (*Centella asiatica* (L.) Urban). *Jurnal Ilmu dan Teknologi Pangan (ITEPA)*, 9(4), 482. <https://doi.org/10.24843/itepa.2020.v09.i04.p12>
- Tzanova, M., Atanasov, V., Yaneva, Z., Ivanova, D., & Dinev, T. (2020). Selectivity of Current Extraction Techniques for Flavonoids from Plant Materials. *Processes*, 8(10), 1222. <https://doi.org/10.3390/pr8101222>

- Vifta, R. L., & Advistasari, Y. D. (2018). Skrining Fitokimia, Karakterisasi, dan Penentuan Kadar Flavonoid Total Ekstrak dan Fraksi-Fraksi Buah Parijoto (*Medinilla speciosa* B.). 1, 7.
- Wahdaningsih, S., Setyowati, E. P., & Wahyuono, S. (2011). Free radical scavenging activity of (*Alsophila glauca* J. Sm). *Majalah Obat Tradisional*, 5.
- Widyani, M., Ulfa, M., & Wirasisya, D. G. (2019). Efek Penghambatan Radikal Bebas Infusa dan Ekstrak Etanol Herba Pegagan (*Centella Asiatica* (L.) Urb) Dengan Metode DPPH. *Jurnal Pijar Mipa*, 14(1), 100. <https://doi.org/10.29303/jpm.v14i1.1006>
- Yahya, M. A., & Nurrosyidah, I. H. (2020). Antioxidant activity ethanol extract of gotu kola (*Centella asiatica* (L.) Urban) with DPPH method (2,2-Diphenyl-1-Pikrilhidrazil). 3, 7.
- Yu, Q., Duan, W., Liu, B., Duan, Z., & Shang, F. (2016). Microwave-assisted Extraction of Bioactive Substance from *Clinacanthus nutans*. *Proceedings of the 2015 4th International Conference on Sustainable Energy and Environmental Engineering*. 2015 4th International Conference on Sustainable Energy and Environmental Engineering, Shenzhen, China. <https://doi.org/10.2991/icsee-15.2016.128>