

DAFTAR PUSTAKA

- Agoes, G. (2007). *Teknologi Bahan Alam*. Bandung : ITB Press. ISSN. 979-3507-86-1.
- Alara, O. R., Abdurahman, N. H., & Ukaegbu, C. I. (2021). Extraction of phenolic compounds: A review. *Current Research in Food Science*, 4. <https://doi.org/10.1016/j.crfs.2021.03.011>.
- Anggitha, I. (2012). Performa Flokulasi Bioflokulan DYT pada Beragam Keasaman dan Kekuatan Ion terhadap Turbiditas Larutan Kaolin. Universitas Pendidikan Indonesia.
- Apu AS, Bhuyan SH, Khatun F, Liza MS, Matin M & Hossain MdF. (2013). Assesment of Cytotoxic Activity of Two Medicinal Plants Using Brine Shrimp (*Artemia salina*) as An Experimental Tool. *International Journal of Pharmaceutical Sciences and Research*, 4(3), 1125-1130. ISSN: 0975-8232.
- Azahar, N. F., Gani, S. S. A., & Mohd Mokhtar, N. F. (2017). Optimization of phenolics and flavonoids extraction conditions of *Curcuma Zedoaria* leaves using response surface methodology. *Chemistry Central Journal*, 11(1), 1-10. <https://doi.org/10.1186/s13065-017-0324-y>.
- Azizah, D.N. & Faramayuda, F., 2014. Penetapan Kadar Flavonoid Metode AlCl₃ Pada Ekstrak Metanol Kulit Buah Kakao (*Theobroma Cacao* L.). *Kartika Jurnal Ilmiah Farmasi*, 2(2). ISSN 2354-6565.
- Backer, C.A., Brink, R.C & Bakhuizen, V. D. (1963). *Flora of Java (Spermatophytes only)*. Netherlands : N.V.P. Noordhoff.
- Bahari, M. C., Suprpto, D. & Hutabarat, S. (2014). Pengaruh suhu dan salinitas terhadap penetasan kista artemia salina skala laboratorium. *Management of Aquatic Resources Journal (MAQUARES)*, 3(4), 188-194. <https://doi.org/10.14710/marj.v3i4.7098>.
- Bahr, A. S., Isoni, W., & Maulida, N. (2021). Hatching and harvesting techniques for *Artemia* cysts with different effects of salinity in the district of Situbondo, East Java. In *IOP Conference Series: Earth and Environmental Science*, 718 (1). <https://doi.org/10.1088/1755-1315/718/1/012037>.
- Balunas, M. J., & Kinghorn, A. D. (2005). Drug discovery from medicinal plants. *Life Sciences*, 78(5), 431–441. <https://doi.org/10.1016/j.lfs.2005.09.012>.
- Carballo, J. L., Hernández-Inda, Z. L., Pérez, P., & García-Grávalos, M. D. (2002) A Comparison Between Two Brine Shrimp Assays to Detect In Vitro Cytotoxicity in Marine Natural Products. *BMC Biotechnology*, 2(1), 1-5. <https://doi.org/10.1186/1472-6750-2-17>.
- Chang, C. C., Yang, M. H., Wen, H. M., & Chern, J. C. (2002). Estimation of total flavonoid content in propolis by two complementary colorimetric methods. *Journal of food and drug analysis*, 10(3). <https://doi.org/10.38212/2224-6614.2748>.

- Caesar, L. K., & Cech, N. B. (2019). Synergy and antagonism in natural product extracts: when 1+ 1 does not equal 2. *Natural product reports*, 36(6), 869-888. <https://doi.org/10.1039/C9NP00011A>.
- Chen LG, Yang LL & Wang CC. (2008). Anti-Inflammatory activity of mangosteen from *Garcinia mangostana*. *Chemical Toxicology*, 46(2), 688-693. <https://doi.org/10.1016/j.fct.2007.09.096>
- Chomnawang MT, Surassmo S, Wongsariya K & Bunyapraphatsara N. (2009). Antibacterial activity of Thai medicinal plants against methicillin-resistant *Staphylococcus aureus*. *Fitoterapia*, 80(2), 102-104. <https://doi.org/10.1016/j.fitote.2008.10.007>.
- Dai, J., & Mumper, R.J., (2010). Plant phenolics: extraction, analysis and their antioxidant and anticancer properties. *Molecules*, 15, 7313–7352. <https://doi.org/10.3390/molecules15107313>.
- Dalimartha, S. (2003). *Atlas Tumbuhan Obat Indonesia, Jilid III*. Jakarta : Puspa Swara. ISBN 979-323573-x.
- Departemen Kesehatan Republik Indonesia. (1995). *Materia Medika Indonesia Jilid VI*. Jakarta : Departemen Kesehatan Republik Indonesia.
- Departemen Kesehatan Republik Indonesia. (2017). *Farmakope Herbal Indonesia Edisi II*. Jakarta : Departemen Kesehatan Republik Indonesia.
- Dewi, I. D. A. D. Y., Astuti, K. W & Warditiani, N. K. (2013). Identifikasi kandungan kimia ekstrak kulit buah manggis (*Garcinia mangostana* L.). *Jurnal Farmasi Udayana*, 2(4), 13-18. ISSN 2622-4607.
- Dhurhania, C. E & Novianto, A. (2018). Uji kandungan fenolik total dan pengaruhnya terhadap aktivitas antioksidan dari berbagai bentuk sediaan sarang semut (*Myrmecodia pendens*). *Jurnal Farmasi dan Ilmu Kefarmasian Indonesia*, 5(2), 62-68. <https://doi.org/10.20473/jfiki.v5i22018.62-68>.
- Ergina, E., Nuryanti, S., & Pursitasari, I. D. (2014). Uji kualitatif senyawa metabolit sekunder pada daun palado (*Agave angustifolia*) yang diekstraksi dengan pelarut air dan etanol. *Jurnal Akademika Kimia*, 3(3), 165-172. e-ISSN: 2477-5185.
- Fernandes, F. H. A., & Salgado, H. R. N. (2016). Gallic acid: review of the methods of determination and quantification. *Critical reviews in analytical chemistry*, 46(3), 257-265. <https://doi.org/10.1080/10408347.2015.1095064>.
- Harborne, J. B. (1994). *The Flavonoids*. London : Chapman and Hall
- Hasan, A. E. Z., Nashrianto, H., Juhaeni, R. N., & Artika, I. M. (2016). Optimization of conditions for flavonoids extraction from mangosteen (*Garcinia mangostana* L.). *Der. Pharmacia Lettre*, 8(18), 114-120.
- Hidayat, S. M., & Safitri, C. I. N. H. (2020). Aktivitas Kombinasi Ekstrak Daun Sirih Hijau dan Buah Asam Jawa terhadap *Candida albicans* secara Mikrodilusi. Prosiding SNPBS (Seminar Nasional Pendidikan Biologi dan Saintek) Ke-5.
- Hoola, B. V. N. (1885). *Fleurs, Fruits et Feuillages Choisis de l'Ile de Java peints d'apres nature*. Brussels: Librairie Europeene C. Muquardt.

- Huo L, Lu R, Li P, Liao Y & Chen R. (2011). Antioxidant activity, total phenolic and total flavonoid of extracts from the stems of *Jasminum nervosum* Lour. *Grasas Aceites* 2, 149–154.
- Isman, M.B, P.J. Gunning & K.M. Spollen. (1997). Tropical timber species as sources of botanical insecticides. In: Phytochemicals for Pest Control. (Hedin, P.A., R.M. Hollingworth, E.P. Masler, J. Miyamoto, D.G. Thomson (eds.). *Amer. Chem. Soc. Symp. Ser.*, 658. <https://doi.org/10.1021/bk-1997-0658.ch003>.
- Integrated Taxonomic Information System. *Curcuma zedoaria*. Diakses pada 19 April 2021, dari https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=506509#null.
- Integrated Taxonomic Information System. *Garcinia mangostana*. Diakses pada 19 April 2021, dari https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=21484#null.
- Jamal Y, Praptiwi & Agusta A. (2001). Penampisan fitokimia, uji toksisitas dan anti bakteri dari ekstrak kulit batang *G. celebica* dan *G. tetandra*. *Buletin Farmasi Indonesia*, 12(2), 97–102
- Jang, M. K., Sohn, D. H. & Ryu, J. H. (2001). A Curcuminoid and Sesquiterpenes as Inhibitor of Macrophage TNF- α Release from *Curcuma zedoaria*. *Planta Med*, 67, 550-552. <https://doi.org/10.1055/s-2001-16482>.
- Jelita, S. F., Setyowati, G. W., & Ferdinand, M. (2020). Uji Toksisitas Infusa *Acalypha siamensis* dengan Metode Brine Shrimp Lethality Test (BSLT). *Farmaka*, 18(1), 14-22. <https://doi.org/10.24198/jf.v18i1.25926>.
- Kalita P, Barman TK, Pal TK & Kalita R. (2013). Estimation of total flavonoids content (TFC) and antioxidant activities of methanolic whole plant extract of biophytum sensitivum linn. *J drug deliv Ther*, 4, 33–37.
- Katuuk, R. H., Wanget, S. A., & Tumewu, P. (2019). Pengaruh Perbedaan Ketinggian Tempat Terhadap Kandungan Metabolit Sekunder Pada Gulma Babadotan (*Ageratum Conyzoides* L.). In *Cocos*, 1(4). <https://doi.org/10.35791/cocos.v1i4.24162>.
- Kitamura, C., T. Nagoe, M. S. Prana, A. Agusta, K. Ohashi & H. Shibuya. (2007). Comparison of *Curcuma* sp. in Yakushima with *C. aeruginosa* and *C. zedoaria* in Java by trn K gene sequence, RAPD pattern, and essential oil component. *Journal of Natural Medicines*, 61(3), 239–243. <https://doi.org/10.1007/s11418-006-0131-6>.
- Köhler, H. A. (1887). *Medizinal-Pflanzen in naturgetreuen Abbildungen mit kurz erläuterndem*. German : Franz Eugen Köhler.
- Komariah, R., Darmayanti, L. T., & Arihantana, N. I. H. (2021). Pengaruh Pengeringan terhadap Karakteristik Teh Herbal Celup Rimpang Temu Putih (*Curcuma zedoaria* Rosc.). *Itepa : Jurnal Ilmu dan Teknologi Pangan*, (2), 281-292. <https://doi.org/10.24843/itepa.2021.v10.i02.p11>.
- Kumoro & Cahyono, A. (2015). *Teknologi Ekstraksi Senyawa Bahan Aktif dari Tanaman Obat*. Yogyakarta: Plantaxia.
- Lakshmi, D. V., Muthukumar, P., Ekka, J. P., Nayak, P. K., & Layek, A. (2019). Performance comparison of mixed mode and indirect mode parallel flow forced

- convection solar driers for drying *Curcuma zedoaria*. *Journal of Food Process Engineering*, 42(4). <https://doi.org/10.1111/jfpe.13045>.
- Laura, A., Moreno-Escamilla, J. O., Rodrigo-García, J., & Alvarez-Parrilla, E. (2019). Phenolic compounds. In *Postharvest physiology and biochemistry of fruits and vegetables*. Woodhead Publishing. <https://doi.org/10.1016/B978-0-12-813278-4.00012-9>.
- Lestari, M.S & Rauf, A.W. (2017). Efektivitas Ekstrak Daun Zodia (*Evodia Suaveolens* Scheff) untuk Menurunkan Palatabilitas Larva *Plutella Xylostella*, L. *Prosiding Seminar Nasional. Inovasi Pestisida Ramah Lingkungan Mendukung Swasembada Pangan*: 145 – 154. Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian.
- Lobo, R., K.S. Prabhu, A. Shirwaikar & A. Shirwaikar. (2009). *Curcuma zedoaria* Rosc. (white turmeric): a review of its chemical, pharmacological and ethnomedicinal properties. *Journal of Pharmacy and Pharmacology*, 61, 13-21. <https://doi.org/10.1211/jpp.61.01.0003>.
- Lu F.C. (1995). *Toksikologi Dasar*, Ed. 2. UI-Press: Jakarta.
- Manasathien, J., & Khanema, P. (2015). Antioxidant and cytotoxic activities of mangosteen *Garcinia mangostana* pericarp extracts. *Asia-Pacific Journal of Science and Technology*, 20(4), 381-392. <https://doi.org/10.14456/kkurj.2015.32>.
- Manongko, P. S., Sangi, M. S., & Momuat, L. I. (2020). Uji Senyawa Fitokimia dan Aktivitas Antioksidan Tanaman Patah Tulang (*Euphorbia tirucalli* L.). *Jurnal Mipa*, 9(2), 64-69. <https://doi.org/10.35799/jmuo.9.2.2020.28725>.
- Mardiana, L. (2012). *Ramuan dan khasiat kulit manggis*. Jakarta: Penebar Swadaya.
- Marliani, L., Sukmawati, I. K., Juanda, D., Anjani, E., & Anggraeni, I. (2021). Penapisan Fitokimia, Kadar Kurkuminoid dan Aktivitas Antibakteri Temu Hitam (*Curcuma aeruginosa* (Christm) Roscoe.), Temu Putih (*Curcuma zedoaria* Roxb.) dan Temulawak (*Curcuma xanthorrhiza* Roxb.). *Herb-Medicine Journal*, 4(1), 57-64. <https://doi.org/10.30595/hmj.v4i1.9092>.
- Marzouk, M.M. (2016). Flavonoid Constituents And Cytotoxic Activity Of *Erucaria Hispanica* (L.) Druce Growing Wild In Egypt. *Arabian Journal Of Chemistry*, 9, 411–415. <https://doi.org/10.1016/j.arabjc.2011.05.010>.
- Meyer, B.N., Ferrigni, N.R., Putnam, J.E., Jacobsen, L.B., Nichols, D. & McLaughlin, J.L. (1982). Brine shrimp: A convenient general bioassay for active plant constituents. *Planta medica*. (45): 31-34. <https://doi.org/10.1055/s-2007-971236>.
- Mierziak, J., Kostyn, K & Kulma, A. (2014). Flavonoids as important molecules of plant interactions with the environment. *Mol. Basel Switz*, 19, 16240-16265. <https://doi.org/10.3390/molecules191016240>
- Mukhrani, M., Rusdi, M., Arsul, M. I., Sugiarna, R. & Farhan, N. (2019). Kadar Fenolik dan Flavonoid Total Ekstrak Etanol Daun Anggur (*Vitis vinifera* L). *ad-Dawaa' Journal of Pharmaceutical Sciences*, 2(2).
- Nidyasari, R. S., Akmal, H., & Ariyanti, N. S. (2018). Karakterisasi Morfologi dan Anatomi Tanaman Manggis dan Kerabatnya (*Garcinia* spp.) di Taman Buah

- Mekarsari. *Jurnal Sumberdaya Hayati*, 4(1). <https://doi.org/10.29244/jsdh.4.1.12-20>.
- Notoatmodjo, S. 2007. *Promosi Kesehatan dan Ilmu Perilaku*. Jakarta: Rineka Cipta. ISBN : 978-979-518-882-7.
- Noviardi, H., Yuningtyas, S., & Suwarni, D. (2019). Sitotoksisitas Kombinasi Ekstrak Daun Petai Cina Dan Kulit Jengkol Terhadap Sel Kanker Payudara Dan Serviks (Cytotoxicity of Petai Cina Leaves and Jengkol Pods Combinations Against Breast Cancer Cells and Cervix). *Biopropal Industri*, 10(2), 109-117.
- Nurmillah, O. Y. (2009). *Kajian aktivitas antioksidan dan antimikroba ekstrak biji kulit buah batang dan daun tanaman jarak pagar (Jatropha curcas L.)*. [Thesis] Bogor : Institut Pertanian Bogor.
- Ozyigit, I.I., M.V. Kahraman, & O. Ercan. (2007). Relation between explant age, total phenols and regeneration response in tissue cultured cotton (*Gossypium hirsutum* L.). *African J. Biotechnol.* 6(1):003-008. ISSN:1684-5315.
- Pairul, Susianti & Nasution H.S. (2017). Jahe (*Zingiber Officinale*) Sebagai Anti Ulserogenik. *Medula*. 7(5). 42-46
- Panche, A.N., Diwan, A.D., & Chandra, S.R. (2016). Flavonoids: an overview. *J. Nutr. Sci.* 5. <https://doi.org/10.1017/jns.2016.41>.
- Park, J. S., Ahn, E. Y., & Park, Y. (2017). Asymmetric dumbbell-shaped silver nanoparticles and spherical gold nanoparticles green-synthesized by mangosteen (*Garcinia mangostana*) pericarp waste extracts. *International journal of nanomedicine*, 12. <https://doi.org/10.2147/IJN.S140190>.
- Pokorny, J., Yanishlieva N & Gordon, M. (2001). *Antioxidant in food*. Washington DC : CRC. Press. ISBN: 9781855736160.
- Prihatman, K. (2000). *Manggis (Garcinia mangostana L.)*. Jakarta : Kantor Deputi Menegristek Bidang Pendayagunaan dan Pemasyarakatan Ilmu Pengetahuan dan Teknologi BPP Teknologi.
- Putri, M.K.D., Pringgenies, D. & Radjasa, O.K. (2012). Uji Fitokimia Dan Toksisitas Ekstrak Kasar Gastropoda (*Telescopium telescopium*) Terhadap Larva *Artemia salina*. *Journal Of Marine Research*, 1(2), 58-66. <https://doi.org/10.14710/jmr.v1i2.2020>.
- Qinghu, W., Jinmei, J., Nayintai, D., Narenchaoketu, H., Jingjing, H. & Baiyinmuqier, B. (2016). Anti-Inflammatory Effects, Nuclear Magnetic Resonance Identification And High-Performance Liquid Chromatography Isolation Of The Total flavonoids From *Artemisia frigida*. *Journal Of Food And Drug Analysis*, 24, 385-391. <https://doi.org/10.1016/j.jfda.2015.11.004>.
- Ramlan MF, Mahmud TMM, Hasan BM & Karim MZ. (1992). Studies on photosynthesis on young mangosteen plants grown under several growth conditions. *Acta Hort*, 321, 482-489. <https://doi.org/10.17660/ActaHortic.1992.321.52>.
- Rezki, A. P., Gonggo, S. T., & Sabang, S. M. (2017). Analisis Kadar Flavonoid dan Fenolat pada Kulit Buah Manggis (*Garcinia mangostana* L.). *Jurnal Akademika Kimia*, 6(4), 196-199. e-ISSN: 2477-5185.

- Riyani, A., & Adawiah, R. (2015). Ekstraksi Flavonoid metode Soxhletasi dari batang pohon pisang ambon (*Musa paradisiaca* var. *sapientum*) dengan berbagai jenis pelarut. *Prosiding Simposium Nasional Inovasi dan Pembelajaran Sains*, 625-628. ISBN: 978-602-19655-8-0.
- Saefudin, S., Syarif, F., & Chairul, C. (2014). Potensi Antioksidan Dan Aktivitas Antiproliferasi Ekstrak Kunyit Putih (*Curcuma zedoaria* Rosc.) pada Sel HELA. *Widyariset*, 17(3), 381-389. <http://dx.doi.org/10.14203/widyariset.17.3.2014.381-389>.
- Sangi, M. S., Momuat, L. I., & Kumaunang, M. (2012). Uji toksisitas dan skrining fitokimia tepung gabah pelepah aren (*Arenga pinnata*). *Jurnal Ilmiah Sains*, 12 (2), 127-134. <https://doi.org/10.35799/jis.12.2.2012.716>.
- Santosa & Herry. 2004. *Operasi Teknik Kimia Ekstraksi*. Semarang : Jurusan Teknik Kimia Fakultas Teknik Universitas Diponegoro.
- Saputra, S. H., & Purwanti, T. (2016). Karakteristik Kandungan dan Aktivitas Antioksidan Ekstrak Kunyit Putih (*Curcuma zedoaria* (Berg.) Roscoe). *Jurnal Riset Teknologi Industri*, 6(11), 80-87. <http://dx.doi.org/10.26578/jrti.v6i11.1511>.
- Sari, I., Miranda, T., & Sadli, S. (2016). The Cytotoxic Activity of N-hexane Extract of Kersen (*Muntingia calabura* Linn.) Leaves Using the Brine Shrimp Lethality Test (Bslt) Method. *Jurnal Natural*, 16(2), 37-44. <https://doi.org/10.24815/jn.v16i2.5124>.
- Schmid-Scheonbein, G.W. (2006). Analysis of inflammation. *Ann. Rev. Biomed. Eng.*, 8, 93-151.
- Septyaningsih, D. (2010). Isolasi dan Identifikasi Komponen Utama Ekstrak Biji Buah Merah (*Pandanus conoideus* Lamk.).
- Sharma, R. A., Gescher, A. J., & Steward, W. P. (2005). Curcumin: the story so far. *European journal of cancer*, 41(13), 1955-1968. <https://doi.org/10.1016/j.ejca.2005.05.009>.
- Singleton, V.L. & Rossi, J.A. 1965. Colorimetry Of Total Phenolics With Phosphomolybdic Phosphotungstic Acid Reagents. *American Journal Enology and Viticulture*.16, 144-158.
- Soeka, Y. S., Naiola, E., & Sulisty, J. (2007). Aktivitas Antimikroba Flavonoid-Glikosida Hasil Sintesis Secara Transglikosilasi Enzimatis. *Berita Biologi*, 8(6), 455-464. <https://doi.org/10.14203/beritabiologi.v8i6.825>.
- Sorgeloos, P. (1996). Manual on the Production and Use of Live Food for Aquaculture. *FAO Fisheries Technical Paper*, 361,. ISSN : 0429-9345.
- Sulassih, S., & Santosa E. (2013). Phylogenetic analysis of mangosteen (*Garcinia mangostana* L.) and its relatives based on morphological and inter simple sequence repeat (ISSR) markers. *SABRAO Journal of Breeding and Genetics*. 45(3): 478-490. ISSN : 1029-7073.
- Sungpu, C., Panpipat, W., Yoon, A. S., & Chaijan, M. (2019). Tuning of virgin coconut oil and propylene glycol ratios for maximizing the polyphenol recovery and in vitro bioactivities of mangosteen (*Garcinia mangostana* L.) pericarp. *Process Biochemistry*, 87, 179-186. <https://doi.org/10.1016/j.procbio.2019.08.023>.

- Syafitri, N. E., Bintang, M., & Falah, S. (2014). Kandungan fitokimia, total fenol, dan total flavonoid ekstrak buah harendong (*Melastoma affine* D. Don). *Current Biochemistry*, 1(3).
- Tando, E. (2018). Potensi Senyawa Metabolit Sekunder dalam Sirsak (*Annona muricata*) dan Srikaya (*Annona squamosa*) sebagai Pestisida Nabati untuk Pengendalian Hama dan Penyakit pada Tanaman. *J. Biotropika*, 6(1), 21-27.
- Te-chato S. (2007). Floral and fruit morphology of some spesies in *Garcinia* Spp. Songklanakarin. *J. Sci. Technol*, 29(2), 245-252. ISSN : 0125-3395
- Tetti, M. (2014). Ekstraksi, pemisahan senyawa, dan identifikasi senyawa aktif. *Jurnal Kesehatan*, 7(2).
- Vanessa, M. Munhoza, R. L., José R.P., João, A.C., Zequic, E., Leite, M., Gisely, C., Lopesa & J.P., & Melloa. (2014). Extraction Of Flavonoids From Tagetes Patula: Process Optimization And Screening For Biological Activity. *Rev Bras Farmacogn*, 24, 576 – 583. <https://doi.org/10.1016/j.bjp.2014.10.001>.
- Tan, P.V, (2018). The determination of total alkaloid, polyphenol, flavonoid and saponin contents of Poganggan (*Curcuma* sp.). *Int J Biol*, 10(42). <https://doi.org/10.5539/ijb.v10n4p42>.
- Winarto, I.W. (2004). *Khasiat dan Manfaat Kunyit*. Jakarta: Agro Media Pustaka. ISBN 979-3357-67-3.
- Xia, E., Deng, G., Guo, Y., & Li, H. (2010). Biological Activities of Polyphenol from Grapes. *Int. J. Mol. Sci*, 11.