

DAFTAR PUSTAKA

- Adelakun, O. E., Kudanga, T., Green, I. R., Le Roes-Hill, M., dan Burton, S. G. (2012). Enzymatic Modification Of 2,6-Dimethoxyphenol for The Synthesis of Dimers With High Antioxidant Capacity. *Process Biochemistry*, 47(12), 1926–1932. <https://doi.org/10.1016/j.procbio.2012.06.027>.
- Adhawati, N., dan Jatmiko, Y. D. (2023). Evaluation of Jamu Kunyit Asam (Curcuma domestica Val. - Tamarindus indica L.) As Probiotic Carrier of Lactobacillus Plantarum BP102. *International Food Research Journal*, 30(5), 1274–1284. <https://doi.org/10.47836/ifrj.30.5.15>.
- Akar, Z., Küçük, M., dan 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>.
- Ammerman, N. C., Beier-Sexton, M., dan Azad, A. F. (2008). Growth and Maintenance of Vero Cell Lines. *Current Protocols in Microbiology*, SUPPL. 11. <https://doi.org/10.1002/9780471729259.mca04es11>.
- Ayustra, E.I. (2020). Uji Aktivitas Fraksi Nheksana Etanol Daun Jambu Biji (*Psidium gunaja L.*) sebagai Sediaan Nanopartikel Dalam Bentuk Self-Nano Emulsifying Drug Delivery System (SNEDDS) Terhadap sel T47D dan MCF-7. In *Skripsi*. <http://dspace.uui.ac.id/123456789/23680>.
- Badarinath, A. V, Rao, K. M., Madhu, C., Chetty, S., Ramkanth, S., Rajan, T. V. S., dan Gnanaprakash, K. (2010). A Review On In-Vitro Antioxidant Methods: Comparisions, Correlations and Considerations. *International Journal of PharmTech Research*, 2(2), 1276–1285. <https://wwwma.sid.ir/en/journal/ViewPaper.aspx?ID=383951>.
- Bhavaniramy, S., Vishnupriya, S., Al-Aboody, M. S., Vijayakumar, R., dan Baskaran, D. (2019). Role of Essential Oils In Food Safety: Antimicrobial and Antioxidant Applications. *Grain dan Oil Science and Technology*, 2(2), 49–55. <https://doi.org/10.1016/j.gaost.2019.03.001>.

- Bin Arif, A., Susanto, S., Matra, D. D., dan Widayanti, S. M. (2021). Identifikasi Senyawa Bioaktif dan Manfaatnya dari Beberapa Bagian Tanaman Abiu (*Pouteria caimito*). *Jurnal Hortikultura Indonesia*, 12(1), 10–20.
- BPOM-RI. (2019). Kinerja BPOM Dalam Rangka Triwulan II tahun 2019. <https://www.pom.go.id/new/admin/dat/20191212/RTN-TW-2-2019.pdf>.
- Brock, M., dan Buckel, W. (2004). On The Mechanism of Action of The Antifungal Agent Propionate. Propionyl-CoA Inhibits Glucose Metabolism in *Aspergillus Nidulans*. *European Journal of Biochemistry*, 271(15), 3227–3241. <https://doi.org/10.1111/j.1432-1033.2004.04255.x>.
- Darmapatni, K. A. G., Basori, A., dan Suaniti, N. made. (2016). Pengembangan Metode GC-MS Untuk. *Jurnal Biosains Pascasarjana*, 18(3), 255–270.
- Dewantara, Angger. (2024). Jadi Warisan Budaya UNESCO, Jamu Dengan Sejuta Manfaat Dukung Keseharian Kerjamu!. <https://www.djkn.kemenkeu.go.id/kpknl-palu/baca-artikel/16779/Jadi-Warisan-Budaya-Unesco-Jamu-Dengan-Sejuta-Manfaat-Dukung-Keseharian-Kerjamu.html>.
- Dwidhanti, F., Taufiqurrahman, I., dan Sukmana, B. I. (2018). Cytotoxicity Test of Binjai Leaf (*Mangifera caesia*) Ethanol Extract in Relation to Vero Cells. *Dental Journal*, 51(3), 108–113. <https://doi.org/10.20473/j.djmk.v51.i3.p108-113>.
- Eff, A. R. Y., Hurit, H. E., Rahayu, S. T., Januarko, M. U., dan Putu Gita Maya, W. M. (2020). Antihypertensive, Antidiabetic, Antioxidant and Cytotoxic Activities of Indonesian Traditional Medicine. *Pharmacognosy Journal*, 12(6), 1623–1629. <https://doi.org/10.5530/pj.2020.12.222>.
- Elfahmi, Woerdenbag, H. J., dan Kayser, O. (2014). Jamu: Indonesian Traditional Herbal Medicine Towards Rational Phytopharmacological Use. *Journal of Herbal Medicine*, 4(2), 51–73. <https://doi.org/10.1016/j.hermed.2014.01.002>.
- Fitri L, Irham Taufiqurrahman, I. D. (2018). Phytochemical and Cytotoxicity Testing of *Ramania* Leaves (*Bouea macrophylla* Griffith) Ethanol Extract Toward Vero Cells Using MTT Assay Method (Preliminary study of adjuvant

therapy materials to the preparation of the drug). *Dentino Jurnal Kedokteran Gigi*, *III*(1), 51–56.

Food and Drug Administration (FDA). (2005). Dietary Supplement Labeling Guide: Chapter VI. Claims.

Gnanadeebam, S. D. (2014). GC-MS Analysis of Phytocomponents in *Spermacoce articularis* L. f. leaf. *Research in Pharmacy*, *4*(4), 1–07. www.researchinpharmacy.com

Hartanti, D., Chatsumpun, N., Kitphati, W., Peungvicha, P., dan Supharattanasitthi, W. (2023). The standardized Jamu pahitan, an Indonesian Antidiabetic Formulation, Stimulating The Glucose Uptake and Insulin Secretion In The In-Vitro Models. *Heliyon*, *9*(3), e14018. <https://doi.org/10.1016/j.heliyon.2023.e14018>.

Haryoto, Muhtadi, Indrayudha, P., Azizah, T., Suhendi, A., dan Haryoto, Muhtadi, Peni Indrayudha, Tanti Azizah, A. S. (2013). Aktivitas Sitotoksik Ekstrak Etanol Tumbuhan Sala (*Cynometra ramiflora* Linn) Terhadap Sel HeLa, T47D dan WiDR. *Jurnal Penelitian Saintek*, 21–28.

Hastuti, A., dan amanda Lestari, T. (2021). Pemanfaatan 8 Jenis Rempah Dibidang Kosmetik, Bumbu Masak, Makanan Hingga Fragrance Dan Flavour. *Jurnal Ilmiah Pangan Halal*, *3*, 9–18. <https://ojs.unida.ac.id/JIPH/article/view/6419>.

Hossen, S. M. M., Eva, T. A., Karim, M. S., Mamurat, H., Rahat, M. H. H., dan Nipun, T. S. (2024). Antimicrobial potential, GCMS Analysis and Molecular Docking Studies of *Coelogyne Suaveolens* Extracts: Identification of Bioactive Compounds With Mechanism of Action. *Biochemistry and Biophysics Reports*, *37*, 101648. <https://doi.org/10.1016/j.bbrep.2024.101648>.

Hotmian, E., Suoth, E., Fatimawali, F., dan Tallei, T. (2021). Analisis GC-MS (Gas Chromatography - Mass Spectrometry) Ekstrak Metanol dari Umbi Rumpuk Teki (*Cyperus rotundus* L.). *Pharmacon*, *10*(2), 849. <https://doi.org/10.35799/pha.10.2021.34034>.

- Ibroham, Hasyim Muhammad, Siti, Jamilatun, dan Ika, Dyah Kumalasari. (2022). Potensi Tumbuh-Tumbuhan Di Indonesia Sebagai Antioksidan Alami. *Jurnal Umj*, 1–13. <http://jurnal.umj.ac.id/index.php/semnaslit>.
- Isnawati, D, L. (2021). *Minuman Jamu Tradisional Sebagai Kearifan Lokal Masyarakat Di Kerajaan Majapahit Pada Abad Ke-14 Masehi*. AVATARA, *E-Journal Pendidikan Sejarah*, 11(2), 305-305. https://doi.org/10.1007/978-3-540-71095-0_5698.
- Kalsum, N., Sulaeman, A., Setiawan, B., dan Wibawan, I. W. T. (2016). Phytochemical profiles of propolis *Trigona* spp. From Three Regions In Indonesia Using GC-MS. *Journal of Biology, Agriculture and Healthcare*, 6(14), 31–37. www.iiste.org.
- Kim, J. M., Chung, Y. S., Jo, H. J., Lee, N. J., Kim, M. S., Woo, S. H., Park, S., Kim, J. W., Kim, H. M., dan Han, M. G. (2020). Identification of Coronavirus Isolated From A Patient In Korea With Covid-19. *Osong Public Health and Research Perspectives*, 1, 3–7. <https://doi.org/10.24171/j.phrp.2020.11.1.02>.
- Kurniawidjaja, L. M., Lestari, F., Tejamaya, M., dan Ramdhan, D. H. (2021). Konsep Dasar Toksikologi Industri. In *Fkm Ui*.
- Leyane, T. S., Jere, S. W., dan 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). <https://doi.org/10.3390/ijms23137273>.
- Lu, J., Li, N., Li, S., Liu, W., Li, M., Zhang, M., dan Chen, H. (2023). Biochemical Composition, Antioxidant Activity and Antiproliferative Effects of Different Processed Garlic Products. *Molecules*, 28(2), 1–15. <https://doi.org/10.3390/molecules28020804>.
- Ma'arif, B., Rosa, N., Dianti, M. R., Firdausy, A. F., Laswati, H., dan Agil, M. (2020). Uji Sitotoksistas Ekstrak Etanol 96% Daun Semanggi (*Marsilea crenata* Presl.) pada Sel hFOB 1.19 dengan Metode Microtetrazolium (MTT) Assay Cytotoxicity Test of 96% Ethanol Extract of Semanggi (*Marsilea crenata* Presl.) on hFOB 1.19 Cells Using the Microtet. *FARMASIS: Jurnal Sains Farmasi*, 1(1), 30–31. <https://www.aatbio.com/tools/ic50-calculator>.

- Marbawati, D., dan Sardjiman, S. (2015). Konsentrasi Aman Kurkumin dan PGV-0 terhadap Sel Vero Berdasarkan Hasil Uji Sitotoksik. *Jurnal Kefarmasian Indonesia*, 5(2), 67–73. <https://doi.org/10.22435/jki.v5i2.4408.67-73>.
- Melanie, Welma Salenus M., dan Ninan Lestario L. (2023). Antioxidant Activity and Quercetin Content of Costa Jasmine Leaves and Stem Extract. *Pangan Dan Agroindustri*, 11(2), 100–106.
- Melati, P. (2021). Uji Aktivitas Antioksidan, Sitotoksitas dan GC-MS Ekstrak Metanol Alga Hijau Boergesenia Forbesii (Harvey) Feldmann Dari Pantai Panjang Bengkulu. *Jurnal Pengelolaan Laboratorium Sains Dan Teknologi*, 1(1), 10–24. <https://doi.org/10.33369/labsaintek.v1i1.15432>.
- Mirani, E., dan Sabila, A. M. (2011). Efek Sitotoksik Ekstrak Rimpang Kunyit (Curcuma Domestica Val) Terhadap Viabilitas Sel Hela. *Prosiding Semnas Herbs for Cancer Fk Unissula*, 200–207.
- National Center for Biotechnology Information. PubChem Compound Summary for CID 10110, Propiolic Acid. <https://pubchem.ncbi.nlm.nih.gov/Propiolicacid>. Accessed June 5, 2024.
- National Center for Biotechnology Information. PubChem Compound Summary for CID 12266, 2,5-Dimethylfuran. [https://pubchem.ncbi.nlm.nih.gov/compound/2 5-Dimehylfuran](https://pubchem.ncbi.nlm.nih.gov/compound/2%205-Dimehylfuran). Accessed June 5, 2024.
- Nugraha, A. T., Ramadani, A. P., Werdyani, S., Pratiwi, I. A., Juniardy, T., Arfadila, S., dan Mahardhika, M. R. P. (2021). Cytotoxic Activity of Flavonoid From Local Plant Eriocaulon Cinereum R.B Against MCF-7 Breast Cancer Cells. *Journal of Advanced Pharmaceutical Technology and Research*, 12(4), 425–429. https://doi.org/10.4103/japtr.japtr_69_21.
- Nuraini, F. R., Setyaningsih, R., dan Susilowati, A. (2023). Antibacterial Activity of Bioactive Compound Produced by Endophytic Fungi Isolated from Mangifera Casturi Kosterm Endemic Plant from South Kalimantan, Indonesia. *Indonesian Journal of Biotechnology*, 28(2), 77–85. <https://doi.org/10.22146/ijbiotech.71150>.

- Nurani, L. H. (2012). Uji Sitotoksitas dan Antiproliferatif Sel Kanker Payudara T47D dan Sel Vero Biji Nigella sativa, L. *Pharmaciana*, 2(1). <https://doi.org/10.12928/pharmaciana.v2i1.637>.
- Nurbaidah, S. (2022). Prosiding Seminar Nasional Linguistik dan Sastra (SEMANTIKS) Traditional Javanese Herbal Medicine Naming System. *Jurnal Ilmu Bahasa dan Pendidikan*, 4, 1–9. <https://jurnal.uns.ac.id/prosidingsemantiks>.
- Nurdiani, E., Masriani, M., Rasmawan, R., Muharini, R., dan Sartika, R. P. (2023). Sitotoksitas dan Selektivitas Fraksi Kayu Batang Simpung Air (*Dillenia suffruticosa* (Griff.) Martelli) Terhadap Sel Kanker Payudara. *Al-Kauniah: Jurnal Biologi*, 17(1), 190–200. <https://doi.org/10.15408/kauniah.v17i1.31299>.
- Nursuprianah, I., Heryandi, Y., dan Risdianto, R. (2022). Manfaat Jamu Empon-Empon Untuk Peningkatan Imunitas Tubuh Pada Masa Pandemi Covid-19. *Dimasejati: Jurnal Pengabdian Kepada Masyarakat*, 4(1), 105. <https://doi.org/10.24235/dimasejati.v4i1.10846>.
- Pratiwi, A. ., Yusran, Islawati, dan Artati. (2023). Analisis Kadar Antioksidan pada Ekstrak Daun Binahong Hijau *Anredera cordifolia* (Ten.) Steenis. *Bioma : Jurnal Biologi Makassar*, 8 (66–74). <https://journal.unhas.ac.id/index.php/bioma>.
- Prior, R. L. (2015). Oxygen radical absorbance capacity (ORAC): New Horizons In Relating Dietary Antioxidants/Bioactives and Health Benefits. *Journal of Functional Foods*, 18, 797–810. <https://doi.org/10.1016/j.jff.2014.12.018>.
- Priyanto, J. A., Hening, E. N. W., Permatasari, V., Prastya, M. E., Hasidu, L. O. A. F., dan Primahana, G. (2024). Antioxidant and Cytotoxic Properties of Extract from Soil Bacteria Isolated from Muna Island, Southeast Sulawesi. *Jurnal ILMU DASAR*, 25(1), 7. <https://doi.org/10.19184/jid.v25i1.39244>.
- Puspita, D., Setyo, T., dan Dwi, F. (2019). (Shorea Sumatrana) dengan GC-MS (Analysis of Bioactive Compounds in Sengkawang Oil (Shorea Sumatrana) by GC-MS). *Teknologi Pangan Dan Gizi*, 18, 64–73.

- Putri, C. R. H. (2017). The Potency and Use of *Tamarindus Indica* on Various Therapies. *Jurnal Ilmiah Kedokteran Wijaya Kusuma*, 3(2), 40. <https://doi.org/10.30742/jikw.v3i2.22>.
- Rahmat, R. B. (2021). Epidemiolog Sarankan Ramuan Herbal Untuk Tingkatkan Daya Tahan Tubuh. <https://rri.co.id/jakarta/urban/1200991/epidemiolog-sarankan-ramuan-herbal-untuk-tingkatkan-daya-tahan-tubuh>.
- Rahmawati, J., dan Maryati, M. (2021). Aktivitas Sitotoksik dan Antiproliferasi Fraksi n-Heksan Biji Alpukat (*Persea americana* Mill.) Terhadap sel T47D Cytotoxic and Antiproliferation Activity of n-Hexane Fraction of Avocado Seed (*Persea americana* Mill) on T47D cell. *Jurnal Farmasi Indonesia*, 18(1), 38–46. <http://journals.ums.ac.id/index.php/pharmacon>.
- Rohmah, M., dan Rahmadi, A. (2021). Komponen Bioaktif Herbal dan Rempah Sebagai Antioksidan Alami. *Grup Penerbitan CV BUDI UTAMA*, 1, 1–152.
- Sakinah, L., Fajriah, A., dan Firdausi, M. B. N. (2023). Keragaman Jenis Tumbuhan di Taman Toga Biologi UIN Khas Jember. *Jurnal Penelitian Dan Pengabdian Kepada Masyarakat*, 1(1), 71–85. <https://kalangan.amiin.or.id/index.php/kalangan/article/view/7>.
- Sauceda, A. E. Q., Sáyago-Ayerdi, S. G., Ayala-Zavala, J. F., Wall-Medrano, A., de la Rosa, L. A., González-Aguilar, G. A., dan Álvarez-Parrilla, E. (2017). Biological actions of phenolic compounds. *Fruit and Vegetable Phytochemicals: Chemistry and Human Health: Second Edition*, 1, 125–137. <https://doi.org/10.1002/9781119158042.ch6>.
- Septiani, D. A., Hakim, A., Patech, L. R., Zulhalifah, Z., dan Siswadi, S. (2021). Isolation and Identification of Andrographolide Compounds from the Leaves of Sambiloto Plant (*Andrographis paniculata* Ness). *Acta Chimica Asiana*, 4(1), 108–113. <https://doi.org/10.29303/aca.v4i1.65>.
- Silalahi, M. (2019). Kencur (*Kaempferia galanga*) dan Bioaktivitasnya. *Jurnal Pendidikan Informatika dan Sains*, 8(1), 127. <https://doi.org/10.31571/saintek.v8i1.1178>.

- Silva, S. D. F., Blank, D. E., Peixoto, C. R., De Jesus Da Silveira Moreira, J., dan Fernandes De Moura, N. (2016). Bioactive Compounds and Antioxidant Activity of *Bunchosia Glandulifera*. *International Journal of Food Properties*, 19(2), 467–473. <https://doi.org/10.1080/10942912.2015.1033547>.
- Suhermin Ingsih, I., Winaktu, G., Efendi, D., dan Wirateruna, S. (2020). Pembuatan Jamu Tradisional Kunyit Asam Sebagai Minuman Peningkat Daya Imunitas Tubuh Pada Masa Pandemi Covid-19. *Prosiding Seminar Nasional Abdimas Ma Chung*, 328–339.
- Suparmi, S., Wahidin, D., dan Rietjens, I. M. C. M. (2021). Risk Characterisation of Constituents Present In Jamu To Promote Its Safe Use. *Critical Reviews in Toxicology*, 51(2), 183–191. <https://doi.org/10.1080/10408444.2021.1912708>.
- Suwarno, L. H., Suseno, T. I. P., dan Kuswardani, I. (2022). Pengaruh Jenis Kemasan dan Kondisi Penyimpanan terhadap Aktivitas Antioksidan, Sifat Fisikokimia, Mikrobiologis, dan Organoleptik Minuman Beras Kencur dari Beras Putih Varietas Jasmine. *Jurnal Teknologi Pangan Dan Gizi*, 21(1), 63–73. <https://doi.org/10.33508/jtpg.v21i1.3771>.
- Timotius, K. H., Sari, I. N., dan Santoso, A. W. (2015). Major Bioactive Compounds of Pilis Plant Materials: A GC-MS Analysis. *Pharmacognosy Communications*, 5(3), 190–196. <https://doi.org/10.5530/pc.2015.3.4>.
- Tiwary, B. K., Bihani, S., Kumar, A., Chakraborty, R., dan Ghosh, R. (2015). The In Vitro Cytotoxic Activity of Ethno-Pharmacological Important Plants of Darjeeling District of West Bengal Against Different Human Cancer Cell Lines. *BMC Complementary and Alternative Medicine*, 15(1), 1–10. <https://doi.org/10.1186/s12906-015-0543-5>.
- Turner, Diane. (2022). GC-MS Principle, Instrument and Analyses and GC-MS/MS. <https://www.technologynetworks.com/analysis/articles/gc-ms-principle-instrument-and-analyses-tmianand-gc-msms-36251>
- Widyawati, T. (2007). Aspek Farmakologi Sambiloto (*Androginus paniculata* Ness). *Majalah Kedokteran Nusantara*, 40(3): 216:222.

Yasin, S. A., Azzahra, A., Ramadhan, N. E., dan Mylanda, V. (2020). Studi Penambatan Molekuler dan Prediksi ADMET Senyawa Bioaktif Beberapa Jamu Indonesia terhadap SARS-CoV-2 Main Protease (Mpro). *Berkala Ilmiah Mahasiswa Farmasi Indonesia (BIMFI)*, 7(2), 24–41. <https://doi.org/10.48177/bimfi.v7i2.45>.

Zulfa, E., Susilowati, S., dan Budiarti, A. (2015). Uji Sitotoksitas Ekstrak Metanol Umbi Bit (*Beta vulgaris* L. var. *rubra* L.) Terhadap Cell Line T47D. *Jurnal Ilmu Farmasi Dan Farmasi Klinik*, 12(1), 20–25.