

DAFTAR PUSTAKA

- Agustina, W., & Handayani, D. (2017). Skrining Fitokimia dan Aktivitas Antioksidan Beberapa Fraksi Dari Kulit Batang Jarak (*Ricinus communis* L.). *Jurnal Pendidikan Dan Ilmu Kimia*, 1(2), 117–122.
- Akhtar, M. S., Rafiullah, M., Shehata, W. A., Hossain, A., & Ali, M. (2022). Comparative phytochemical, thin layer chromatographic profiling and antioxidant activity of extracts from some Indian herbal drugs. *Journal of Bioresources and Bioproducts*, 7(2), 128–134. <https://doi.org/10.1016/j.jobab.2022.01.001>
- Amessis-Ouchemoukh, N., Ouchemoukh, S., Meziant, N., Idiri, Y., Hernanz, D., Stinco, C. M., Rodríguez-Pulido, F. J., Heredia, F. J., Madani, K., & Luis, J. (2017). Bioactive metabolites involved in the antioxidant, anticancer and anticalpain activities of *Ficus carica* L., *Ceratonia siliqua* L. and *Quercus ilex* L. extracts. *Industrial Crops and Products*, 95, 6–17. <https://doi.org/10.1016/j.indcrop.2016.10.007>
- Anggarani, M. A., Ayuningsih, A. D., Yudianto, E., & Prasodi, B. A. (2019). The Composition of Water and Ash of Secang Wood's Simplicia and Secang Wood Herbal Drink Powder. *Journal of Physics: Conference Series*, 1417(1), 0–5. <https://doi.org/10.1088/1742-6596/1417/1/012033>
- Azman, E. M., Charalampopoulos, D., & Chatzifragkou, A. (2020). Acetic acid buffer as extraction medium for free and bound phenolics from dried blackcurrant (*Ribes nigrum* L.) skins. *Journal of Food Science*, 85(11), 3745–3755. <https://doi.org/10.1111/1750-3841.15466>
- Azzahra, F., & Budiati, T. (2022). EFFECTS OF DRYING METHOD AND SOLVENTS ON YIELD AND CHEMICAL CONTENT OF AVOCADO LEAVES EXTRACT (*Persea americana* Mill.). *Medical Sains*, 7(1), 67–78.
- Bayani, F. (2021). Analysis of Total Phenol from Sentul Fruit Extraction (*Sandoricum koetjape* Merr.). *Andrew's Disease of the Skin Clinical Dermatology*, 9(1), 58–64.
- Bisswanger, H. (2014). Enzyme assays. *Perspectives in Science*, 1(1–6), 41–55.

<https://doi.org/10.1016/j.pisc.2014.02.005>

- Chen, C. J., Lü, J. M., & Yao, Q. (2016). Hyperuricemia-related diseases and xanthine oxidoreductase (XOR) inhibitors: An overview. *Medical Science Monitor*, 22, 2501–2512. <https://doi.org/10.12659/MSM.899852>
- Choi, H. K., Atkinson, K., Karlson, E. W., Willett, W., & Curhan, G. (2004). Ingesta de alcohol y riesgo de incidencia de gota en hombres: un estudio prospectivo. *The Lancet*, 363, 1277–1281.
- Choi, H. K., & Curhan, G. (2008). Soft drinks, fructose consumption, and the risk of gout in men: Prospective cohort study. *Bmj*, 336(7639), 309–312. <https://doi.org/10.1136/bmj.39449.819271.BE>
- Chua, L. S., Latiff, N. A., & Mohamad, M. (2016). Reflux extraction and cleanup process by column chromatography for high yield of andrographolide enriched extract. *Journal of Applied Research on Medicinal and Aromatic Plants*, 3(2), 64–70. <https://doi.org/10.1016/j.jarmap.2016.01.004>
- Dehlin, M., Jacobsson, L., & Roddy, E. (2020). Global epidemiology of gout: prevalence, incidence, treatment patterns and risk factors. *Nature Reviews Rheumatology*, 16(7), 380–390. <https://doi.org/10.1038/s41584-020-0441-1>
- Dewi, S. R., Argo, B. D., & Ulya, N. (2018). Kandungan Flavonoid dan Aktivitas Antioksidan Ekstrak *Pleurotus ostreatus*. *Rona Teknik Pertanian*, 11(1), 1–10. <https://doi.org/10.17969/rtp.v11i1.9571>
- Elwakil, H. Eld., Zaitoun, A., Weheda, B., Abushady, A., Khalid, A., & Ali, N. (2021). Genetical and morphological studies on Ficus trees. *Journal of the Advances in Agricultural Researches*, 26(2), 60–73. <https://doi.org/10.21608/jalexu.2021.171573>
- Evans, P. L., Prior, J. A., Belcher, J., Mallen, C. D., Hay, C. A., & Roddy, E. (2018). Obesity, hypertension and diuretic use as risk factors for incident gout: A systematic review and meta-analysis of cohort studies. *Arthritis Research and Therapy*, 20(1), 1–15. <https://doi.org/10.1186/s13075-018-1612-1>
- Fachriyah, E., Ghifari, M. A., & Anam, K. (2018). Isolation, Identification, and Xanthine Oxidase Inhibition Activity of Alkaloid Compound from *Peperomia pellucida*. *IOP Conference Series: Materials Science and Engineering*, 349(1).

<https://doi.org/10.1088/1757-899X/349/1/012017>

- Farnsworth, R. (1966). Biological and Phytochemical Screening of Plants. *Pharmaceutical Sciences*, 55(3), 225–276. <https://doi.org/10.1126/science.151.3712.874>
- Fauziah, A., Sudirga, S. K., & Parwanayoni, N. M. S. (2021). Uji Antioksidan Ekstrak Daun Tanaman Leunca (*Solanum nigrum* L.). *Metamorfosa: Journal of Biological Sciences*, 8(1), 28. <https://doi.org/10.24843/metamorfosa.2021.v08.i01.p03>
- Gogtay, N. J., & Thatte, U. M. (2017). Principles of correlation analysis. *Journal of Association of Physicians of India*, 65(MARCH), 78–81.
- Hak, E., Curhan, G. C., Grodstein, F., & Choi, H. K. (2010). Menopause, Postmenopausal Hormone Use and Risk of Incident Gout. *NIH Public Access*, 69(7), 1305–1309. <https://doi.org/10.1136/ard.2009.109884>. Menopause
- Hidayah, N. (2016). Pemanfaatan Senyawa Metabolit Sekunder Tanaman (Tanin dan Saponin) dalam Mengurangi Emisi Metan Ternak Ruminansia. *Jurnal Sain Peternakan Indonesia*, 11(2), 89–98. <https://doi.org/10.31186/jspi.id.11.2.89-98>
- Hui, M., Carr, A., Cameron, S., Davenport, G., Doherty, M., Forrester, H., Jenkins, W., Jordan, K. M., Mallen, C. D., McDonald, T. M., Nuki, G., Pywell, A., Zhang, W., & Roddy, E. (2017). The British Society For Rheumatology guideline for the management of gout. *Rheumatology (United Kingdom)*, 56(7), e1–e20. <https://doi.org/10.1093/rheumatology/kex156>
- Irum, Z., Siddiqui, A. H., Khan, F. A., Perveen, F., Firdous, A., & Yousaf, N. (2023). Xanthine Oxidase Inhibitory Activity of Ethanolic Extract of Ficus Carica Fruit. *Pakistan Journal of Medical and Health Sciences*, 17(1), 304–306. <https://doi.org/10.53350/pjmhs2023171304>
- Julianti, W. P., Ikrawan, Y., Iwansyah, A. C., Pangan, T., Pasundan, U., Penelitian, P., & Tepat, T. (2019). PENGARUH JENIS PELARUT TERHADAP KANDUNGAN TOTAL FENOLIK, AKTIFITAS ANTIOKSIDAN DAN TOKSISITAS EKSTRAK BUAH CIPLUKAN (*Physalis angulata* L.). *Jurnal Riset Teknologi Industri*, 13(1), 70–79.

- Kemenkes RI. (2017). Farmakope Herbal Indonesia Edisi II. In *Pocket Handbook of Nonhuman Primate Clinical Medicine*. <https://doi.org/10.1201/b12934-13>
- Kim, T. K. (2017). Understanding one-way anova usinKim, T. K. (2017). Understanding one-way anova using conceptual figures. *Korean Journal of Anesthesiology*, 70(1), 22–26. <https://doi.org/10.4097/kjae.2017.70.1.22g> conceptual figures. *Korean Journal of Anesthesiology*, 70(1), 22–26.
- Kostić, D. A., Dimitrijević, D. S., Stojanović, G. S., Palić, I. R., Dordević, A. S., & Ickovski, J. D. (2015). Xanthine oxidase: Isolation, assays of activity, and inhibition. *Journal of Chemistry*, 2015. <https://doi.org/10.1155/2015/294858>
- Kowalska, T., & Sajewicz, M. (2022). Thin-Layer Chromatography (TLC) in the Screening of Botanicals—Its Versatile Potential and Selected Applications. *Molecules*, 27(19). <https://doi.org/10.3390/molecules27196607>
- Kumar, A., Nirmal, P., Kumar, M., Jose, A., Tomer, V., Oz, E., Proestos, C., Zeng, M., Elobeid, T., Sneha, V., & Oz, F. (2023). Major Phytochemicals: Recent Advances in Health Benefits and Extraction Method. *Molecules*, 28(2), 1–41. <https://doi.org/10.3390/molecules28020887>
- Kuo, C. F., Grainge, M. J., Zhang, W., & Doherty, M. (2015). Global epidemiology of gout: Prevalence, incidence and risk factors. *Nature Reviews Rheumatology*, 11(11), 649–662. <https://doi.org/10.1038/nrrheum.2015.91>
- Kurniawati, R. D., Martini, M., Wahyuningsih, N. E., & Sutiningsih, D. (2022). Comparison analysis of leaf and flower extraction of clove which have the potential as larvacida. *International Research Journal of Public and Environmental Health*, 9(4), 110–119. <https://doi.org/10.15739/irjpeh.22.014>
- Lawal, F., Bapela, M. J., Adebayo, S. A., Nkadimeng, S. M., Yusuf, A. A., Malterud, K. E., McGaw, L. J., & Tshikalange, T. E. (2019). Anti-inflammatory potential of South African medicinal plants used for the treatment of sexually transmitted infections. *South African Journal of Botany*, 125, 62–71. <https://doi.org/10.1016/j.sajb.2019.06.023>
- Lestari, P. P., Kusri, D., & Anam, K. (2015). Anthocyanin Identification of Methanol-HCl Extract Active Fraction in Rosella (*Hibiscus Sabdariffa*. L) and Its Potential as Xanthine Oxidase Inhibitor. *Jurnal Sains Dan Matematika*,

22(3), 72–78.

- Lin, S., Zhang, G., Liao, Y., & Ging, D. (2015). Dietary Flavonoids as Xanthine Oxidase Inhibitors: Structure-Affinity and Structure-Activity Relationships. *Journal of Agricultural and Food Chemistry*, 63(35), 7784–7794. <https://doi.org/10.1021/acs.jafc.5b03386>
- Mahmoudi, S., Khali, M., Benkhaled, A., Benamirouche, K., & Baiti, I. (2016). Phenolic and flavonoid contents, antioxidant and antimicrobial activities of leaf extracts from ten Algerian *Ficus carica* L. varieties. *Asian Pacific Journal of Tropical Biomedicine*, 6(3), 239–245. <https://doi.org/10.1016/j.apjtb.2015.12.010>
- Makuasa, D. A., & Ningsih, P. (2020). The Analysis of Total Flavonoid Levels In Young Leaves and Old Soursop Leaves (*Annona muricata* L.) Using UV-Vis Sepctrofotometry Methods. *Journal of Applied Science, Engineering, Technology, and Education*, 2(1), 11–17. <https://doi.org/10.35877/454ri.asci2133>
- Manurung, H., Kustiawan, W., Kusuma, I. W., & Marjenah. (2017). Total flavonoid content and antioxidant activity of tabat Barito (*Ficus deltoidea* Jack) on different plant organs and ages. *AIP Conference Proceedings*, 1813(January 2018). <https://doi.org/10.1063/1.4975945>
- Mehmood, A., Ishaq, M., Zhao, L., Safdar, B., Rehman, A. ur, Munir, M., Raza, A., Nadeem, M., Iqbal, W., & Wang, C. (2019). Natural compounds with xanthine oxidase inhibitory activity: A review. *Chemical Biology and Drug Design*, 93(4), 387–418. <https://doi.org/10.1111/cbdd.13437>
- Mohos, V., Fliszár-Nyúl, E., & Poór, M. (2020). Inhibition of xanthine oxidase-catalyzed xanthine and 6-mercaptopurine oxidation by flavonoid aglycones and some of their conjugates. *International Journal of Molecular Sciences*, 21(9). <https://doi.org/10.3390/ijms21093256>
- Mostafa, S., Hussein, B. A., Sayed, H. A., Elltriby, H. A., & Hussein, E. H. A. (2020). Genetic diversity assessment among some *Ficus* species using morphological characters and AFLPs. *Plant Archives*, 20, 1395–1404.
- Mróz, M., Malinowska-Pańczyk, E., Bartoszek, A., & Kusznierevicz, B. (2023).

- Comparative Study on Assisted Solvent Extraction Techniques for the Extraction of Biologically Active Compounds from *Sideritis raeseri* and *Sideritis scardica*. *Molecules*, 28(10). <https://doi.org/10.3390/molecules28104207>
- N. W. G., A., K. W., A., & N. K., W. (2012). Skrining Fitokimia Ekstrak Metanol Rimpang Bangle (*Zingiber purpureum* Roxb.). *Jurnal Farmasi Udayana*, 344(4), 1–7.
- Nabavi, S. M., Šamec, D., Tomczyk, M., Milella, L., Russo, D., Habtemariam, S., Suntar, I., Rastrelli, L., Daglia, M., Xiao, J., Giampieri, F., Battino, M., Sobarzo-Sanchez, E., Nabavi, S. F., Yousefi, B., Jeandet, P., Xu, S., & Shirooie, S. (2020). Flavonoid biosynthetic pathways in plants: Versatile targets for metabolic engineering. *Biotechnology Advances*, 38(November). <https://doi.org/10.1016/j.biotechadv.2018.11.005>
- Ningtyas, R. H., & Erwiyani, A. R. (2023). Formulasi dan Uji Stabilitas Fisik Sediaan Permen Jeli Ekstrak Wortel (*Daucuscarota* L.). *Indonesian Journal of Pharmacy and Natural Product*, 6(01), 15–23. <https://doi.org/10.35473/ijpnp.v6i01.2223>
- Ogawa, S., & Yazaki, Y. (2018). Tannins from *Acacia mearnsii* De Wild. Bark: Tannin determination and biological activities. *Molecules*, 23(4), 1–18. <https://doi.org/10.3390/molecules23040837>
- Olaokun, O. O., McGaw, L. J., Eloff, J. N., & Naidoo, V. (2013). Evaluation of the inhibition of carbohydrate hydrolysing enzymes, antioxidant activity and polyphenolic content of extracts of ten African *Ficus* species (Moraceae) used traditionally to treat diabetes. *BMC Complementary and Alternative Medicine*, 13(1), 1. <https://doi.org/10.1186/1472-6882-13-94>
- Park, J. H., Jo, Y. Il, & Lee, J. H. (2020). Renal effects of uric acid: Hyperuricemia and hypouricemia. *Korean Journal of Internal Medicine*, 35(6), 1291–1304. <https://doi.org/10.3904/kjim.2020.410>
- Putri, D. M., & Lubis, S. S. (2020). Skrining fitokimia ekstrak etil asetat daun kelayu (*Erioglossum rubiginosum* (Roxb.) Blum). *Jurnal Amina*, 2(3), 120–126.

- Putri, N. E., & Rissyelly, R. (2016). Uji Penghambatan Xantin Oksidase Secara In Vitro Ekstrak Kulit Rambutan. *Pharmaceutical Sciences and Research*, 3(1), 12–20. <https://doi.org/10.7454/psr.v3i1.3222>
- Quitério, E., Grosso, C., Ferraz, R., Delerue-Matos, C., & Soares, C. (2022). A Critical Comparison of the Advanced Extraction Techniques Applied to Obtain Health-Promoting Compounds from Seaweeds. *Marine Drugs*, 20(11), 1–40. <https://doi.org/10.3390/md20110677>
- Rahayu, S., Amaliah, N., & Patimah, R. (2022). UJI AKTIVITAS ANTIBAKTERI EKSTRAK DAUN TABAT BARITO (*Ficus deltoidea*) TERHADAP BAKTERI *Bacillus substillis* DENGAN TINGKATAN POLARITAS PELARUT. *Jurnal Riset Kefarmasian Indonesia*, 4(1), 34–45. <https://doi.org/10.33759/jrki.v4i1.229>
- Rahman, A. H. M. M., & Khanom, A. (2013). A Taxonomic and Ethno-Medicinal Study of Species from Moraceae (Mulberry) Family in Bangladesh Flora. *Research in Plant Sciences*, 1(3), 53–57. <https://doi.org/10.12691/plant-1-3-1>
- Rasplus, J. Y., Rodriguez, L. J., Sauné, L., Peng, Y. Q., Bain, A., Kjellberg, F., Harrison, R. D., Pereira, R. A. S., Ubaidillah, R., Tollon-Cordet, C., Gautier, M., Rossi, J. P., & Cruaud, A. (2021). Exploring systematic biases, rooting methods and morphological evidence to unravel the evolutionary history of the genus *Ficus* (Moraceae). *Cladistics*, 37(4), 402–422. <https://doi.org/10.1111/cla.12443>
- Rina, A., Eff, Y., Rahayu, S. T., & Syachfitri, R. D. (2016). Uji Aktivitas Penghambatan Xantin Oksidase secara In-Vitro Glukopiranosida ($C_{20}H_{22}O_{10}$) yang Diisolasi dari Mahkota Dewa (*Phaleria macrocarpa* (Scheff.) Boerl) Abstrak. 3(1).
- Sahriawati, S., Sumarlin, S., & Wahyuni, S. (2020). Validasi Metode dan Penetapan Kadar Kolesterol Ayam Broiler dengan Metode Lieberman- Burchard. *Lutjanus*, 24(2), 31–40. <https://doi.org/10.51978/jlpp.v24i2.82>
- Salehi, B., Prakash Mishra, A., Nigam, M., Karazhan, N., Shukla, I., Kiełtyka-Dadasiewicz, A., Sawicka, B., Głowacka, A., Abu-Darwish, M. S., Hussein Tarawneh, A., Gadetskaya, A. V., Cabral, C., Salgueiro, L., Victoriano, M.,

- Martorell, M., Docea, A. O., Abdolshahi, A., Calina, D., & Sharifi-Rad, J. (2021). Ficus plants: State of the art from a phytochemical, pharmacological, and toxicological perspective. *Phytotherapy Research*, 35(3), 1187–1217. <https://doi.org/10.1002/ptr.6884>
- Sekine, M., Okamoto, K., Pai, E. F., Nagata, K., Ichida, K., Hille, R., & Nishino, T. (2023). Allopurinol and oxypurinol differ in their strength and mechanisms of inhibition of xanthine oxidoreductase. *Journal of Biological Chemistry*, 299(9), 105189. <https://doi.org/10.1016/j.jbc.2023.105189>
- Sembiring, E. N., Elya, B., & Sauriasari, R. (2018). Phytochemical screening, total flavonoid and total phenolic content and antioxidant activity of different parts of *Caesalpinia bonduc* (L.) Roxb. *Pharmacognosy Journal*, 10(1), 123–127. <https://doi.org/10.5530/pj.2018.1.22>
- Singh, B., & Sharma, R. A. (2023). Updated review on Indian Ficus species. *Arabian Journal of Chemistry*, 16(8), 104976. <https://doi.org/10.1016/j.arabjc.2023.104976>
- Skoczyńska, M., Chowaniec, M., Szymczak, A., Langner-Hetmańczuk, A., Maciążek-Chyra, B., & Wiland, P. (2020). Pathophysiology of hyperuricemia and its clinical significance – a narrative review. *Reumatologia*, 58(5), 312–323. <https://doi.org/10.5114/reum.2020.100140>
- Šmelcerović, A., Tomović, K., Šmelcerović, Ž., Petronijević, Ž., Kocić, G., Tomašič, T., Jakopin, Ž., & Anderluh, M. (2017). Xanthine oxidase inhibitors beyond allopurinol and febuxostat; an overview and selection of potential leads based on in silico calculated physico-chemical properties, predicted pharmacokinetics and toxicity. *European Journal of Medicinal Chemistry*. <https://doi.org/10.1016/j.ejmech.2017.04.031>
- Stephen, E., Mancia, C. S., Macatangay, A. M., Andal, A. B., Casala, J. C. R., Catapang, L. M. A., Cobeng, A. A., Dumaoal, O. S. R., & Villalobos, O. A. (2019). *In vitro Xanthine Oxidase inhibitory effects of Ficus nota (Moraceae) flavonoid-rich extracts*. 13, 67–79.
- Suwartini, L., Yanti, N., & Efrinalia, W. (2021). Optimasi kondisi pengujian senyawa Flavonoid Total di dalam ekstrak tanaman sebagai pengayaan bahan

- ajar praktikum Makromolekul dan Hasil Alam di Laboratorium Kimia Organik. *Jurnal Penelitian Sains*, 23(1), 28. <https://doi.org/10.56064/jps.v23i1.621>
- Taufiq Dalming, A. K. G. B. (2023). Penetapan Kadar Total Fenol Ekstrak Propolis yang Menggunakan Pelarut Eutektik Dalam Kombinasi Asam Laktat, Glukosa, dan Air. *Jurnal Farmasi/Journal Pharmacy Of Pelamonia*, 3(1), 41–46.
- Teixeira, F. S., Pimentel, L. L., Vidigal, S. S. M. P., Costa, P. T., Pintado, M. E., & Rodriguez-Alcala, L. M. (2022). Lipophilic Phytochemicals in Sugarcane Straw and Bagasse. *Foods*, 11(2661), 1–18. <https://doi.org/10.3390/foods11172661>
- Tomayahu, N., Abidin, Z., Farmasi, F., & Indonesia, U. M. (2016). PENETAPAN KADAR FLAVONOID TOTAL EKSTRAK ETANOL KULIT BUAH ALPUKAT (*Persea americana Mill.*) DENGAN METODE SPEKTROFOTOMETRI UV-VIS. 4(2), 226–230.
- Vitolo, M. (2020). BRIEF REVIEW ON ENZYME ACTIVIT. *World Journal of Pharmacy Research*, 9(2), 60–76. <https://doi.org/10.20959/wjpr20202-16660>
- Wardhani, L. K., & Sulistyani, N. (2012). Uji Aktivitas Antibakteri Ekstrak Etil Asetat Daun Binahong (*Anredera scandens* (L.) Moq.) Terhadap *Shigella flexneri* Beserta Profil Kromatografi Lapis Tipis Antibacterial Activity Test of Ethyl Acetate Extract of Binahong Leaf (*Anredera scandens* (L. *Jurnal Ilmiah Kefarmasian*, 2(1), 1–6.
- Wells, B. G., DiPiro, J. T., Schwinghammer, T. L., & DiPiro, C. V. (2015). *Pharmacotherapy Handbook*.
- Xue, H., Xu, M., Gong, D., & Zhang, G. (2023). Mechanism of flavonoids inhibiting xanthine oxidase and alleviating hyperuricemia from structure–activity relationship and animal experiments: A review. *Food Frontiers*, February, 1–23. <https://doi.org/10.1002/fft2.287>
- Yan, J., Zhang, G., Hu, Y., & Ma, Y. (2013). Effect of luteolin on xanthine oxidase: Inhibition kinetics and interaction mechanism merging with docking

simulation. *Food Chemistry*, 141(4), 2766–2773.

<https://doi.org/10.1016/j.foodchem.2013.06.092>

Zhang, Q. W., Lin, L. G., & Ye, W. C. (2018). Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine (United Kingdom)*, 13(1), 1–26. <https://doi.org/10.1186/s13020-018-0177-x>

