DAFTAR PUSTAKA

Adegbola, P.I., Adetutu, A., Olaniyi, T.D. (2020) 'Antioxidant activity of Amaranthus species from the Amaranthaceae family – A riview'. *South African Journal of Botany* 113: 111-116.

Ahmed, F., Iqbal, M. (2018) 'Antioxidant activity of *Ricinus communis*', Organic & Medicinal Chemistry International Journal 5(4) : 555667.

Al-Ishaq, R.K. *et al.* (2019) 'Flavonoids And Their Anti-Diabetic Effects: Cellular Mechanisms And Effects To Improve Blood Sugar Levels', *Biomolecules*, 9(9). Available At: Https://Doi.Org/10.3390/Biom9090430.

Al-Mahmood, S.M. et al. (2016) 'A Comprehensive Study Of Chronic Diabetes Complications In Streptozotocin-Induced Diabetic Rat', *Makara Journal Of Health Research,* 20(2), Pp. 48–56. Available At: Https://Doi.Org/10.7454/Msk.V20i2.5889.

Al-Tamimi, A., Alfarhan, A., Al-Ansari, S., Rajagopal, R. (2021) 'Antioxidant, enzyme inhibitory and apoptotic activities of alkaloid and flavonoid fractions of Amaranthus spinosus', *Physiological and Molecular Plant Pathology*, 116 : 1-4.

Amabye, T.G. (2015) 'Evaluation of Physiochemical, Phytochemical, Antioxidant and Antimicrobial Screening Parameters of Amaranthus spinosus Leaves', *Natural Products Chemistry & Research* 4(1) : 5.

Andriani, D., Murtisiwi, L. (2018) 'Penetapan kadar fenolik total ekstrak etanol bunga telang (*Clitodia ternatea L.)* dengan spektrofotometri Uv vis)', *Cendekia Journal of Pharmacy* 2(1):36.

Anggarani, M.A., Ilmiah, M., Mahfudhah, D.N. (2023) 'Literature review of antioxidant activity of several types of onions and its potential as health supplements', *Indonesian Journal of Chemical Science* 12(1) : 104.

Apriyani, H., & Kurniati, K. (2020). 'Perbandingan Metode Naïve Bayes Dan Support Vector Machine Dalam Klasifikasi Penyakit Diabetes Melitus', *Journal of Information Technology Ampera*, 1(3), Pp. 133–143. https://doi.org/10.51519/journalita.volume1.isssue3.year2020.page133-143

Asmat, U., Abad, K., Ismail, K. (2016) 'Diabetes mellitus and oxidative stress – A concise review', *Saudi Pharm J* 24(5) : 547-553.

Asworo, R.Y., Widwiastuti, H. (2023) 'Pengaruh ukuran serbuk simplisia dan waktu maserasi terhadap aktivitas antioksidan ekstrak kulit sirsak', *Indonesian Journal of Pharmaceutical Education (e-Journal)* 3(2): 256-263.

Banday, M.Z., Sameer, A.S. And Nissar, S. (2020) 'Pathophysiology Of Diabetes: An Overview', *Avicenna Journal Of Medicine*, 10(04) : 174–188. Https://Doi.Org/10.4103/Ajm.Ajm_53_20.

Barku, V.Y.A., Opoku-Boahen, Y., Ansah, O., dan Mensah, E.F. (2013) 'Antioxidant activity and the estimation of total phenolic and flavonoid contents of the root extract of *Amaranthus spinosus', Asian Journal of Planet Science and Research* 3(1):69-74.

Bavarva, J.H, Narasimhacharya, A.V. (2013) 'Systematic study to evaluate anti-diabetic potential of Amaranthus spinosus on type-1 and type-2 diabetes'. *Cell Mol Biol (Noisy-le-grand).* 2:59 Suppl:OL1818-25. PMID: 23374451.

Basu, S., Ghosh, T., Mitra, P., dan Mitra, P.K. (2019) ' *Amaranthus Spinosus* Linn – Past, Present, and Future', *Journal of Pharmaceutical Research*, 8(6), Pp. 352-360.

Chaves, J.O., et al. (2020) 'Extraction of flavonoids from natural sources using modern techniques'. *Front Chem* 8:507887.

Cheerakuzhy, N., Puthenparampil, D., dan Malayil, D. (2020) 'South African Journal Of Botany Variation In The Polyphenol Composition , Antioxidant , And Anticancer Activity Among Different Amaranthus Species', *South African Journal Of Botany*, 135, Pp. 408–412. Doi: 10.1016/J.Sajb.2020.09.026.

Febriani, D. Salni, Marisa, H. (2022) 'Activity of the antioxidant compounds of Godobos leaves (*Enhydra fluctuans* Lour.)'. *Sriwijaya Bioscientia* 3(2):44.

Ganjare, A. dan Raut, N. 'Nutritional and medical potential of *Amaranthus spinosus'. Journal of Pharmacognosy and Phytochemistry* 8(3) : 3149-3156.

Girija, K., Lakshman, K., Udaya, C., Sabhya, S.G., Divya, T. (2011) 'Anti-diabetic and anti-cholesterolemic activity of methanol extracts of three species of Amaranthus', *Asian Pac J Trop Biomed* 1 (2) : 133-138

Harborne, J.B., (1987). *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan, diterjemahkan oleh Kosasih Padmawinata dan Iwang Sudiro,* Penerbit ITB, Bandung.

Harborne, J.B., (1998). *Phytochemical Methods: A Guide to Modern Techniques of Plant Analysis. Edisi ke*-3. Chapman and Hall, New York.

Hasan, T., Sultana, M. (2018) 'Antidiabetic Potency of Bangladeshi Medicinal Plants', *Journal of Ayurvedic and Herbal Medicine*, 4(1), Pp. 36.

Izah, L. (2009) '*Pengaruh Ekstrak Beberapa Jenis Gulma Terhadap Perkecambahan Biji Jagung (Zea mays L.)'* , Fakultas Sains dan Teknologi, Universitas Islam Negeri (UIN) Maulana Malik Ibrahim, Malang.

Jannah, S., Mulyani, E., Paksi, P.E. (2023) 'Analisa flavonoid fraksi etil asetat ekstrak bayam duri (*Amaranthus spinosus* L) secara spektrofotometri uv-vis', *Jurnal Ilmiah Farmasi* 10(2) : 14-15.

Jhade, D., et al. (2009) 'A Pharmacological review : *Amaranthus spinosus*', *Research Journal of Pharmacognosy and Phytochemisty* 1(3) :

Kementerian Kesehatan RI. (2017) *Farmakope Herbal Indonesia Edisi II*, Kementerian Kesehatan RI, Jakarta.

Kondororik, F., Martosupomo, M., Susanto, A.B. (2017) *'Identifikasi komposisi pigmen, isolasi, dan aktivitas antioksidan β karoten pada rumput laut merah Gracilaria gigas hasil budidaya'*, Program Studi Magister Biologi, Universitas Satya Wacana, Salatiga.

Kumar, B. S. A. Et Al. (2010) 'Antioxidant And Antipyretic Properties Of Methanolic Extract Of Amaranthus Spinosus Leaves'*, Asian Pacific Journal Of Tropical Medicine* 3(9) : 702–706. Doi: 10.1016/S1995-7645(10)60169-1.

Kumar, R.P., Shammy, J., Nitin, G., Rinu, R. (2014) 'An inside review of *Amaranthus spinosus Linn*: a potential medicinal plant of India', *IJRPC* 4(3) : 643-650.

Lee, S.S., Lin, H.C., Chen, C.K. (2016) 'Acylated flavonol monorhamnosides, a-glucosidase inhibitors from *Machilus phillippinensis', Phytochemistry* 69:2347-2353.

Lindawati, N. Y., & Ma'ruf, S. H. (2020). Penetapan Kadar Total Flavonoid Ekstrak Etanol Kacang Merah (*Phaseolus Vulgaris L*.) Secara Spektrofotometri Visibel. *Jurnal Ilmiah Manuntung,* 6(1), 83. https://doi.org/10.51352/jim.v6i1.312.

Mahdalena, Hakim, A.R., Darsono, P.V. (2022) 'Penetapan Kadar Flavonoid Total Fraksi N-Butanol dengan Metode Spektrofotometri UV-Vis terhadap Ekstrak Daun Sukun (Artocapus altilis)', *Sains Medisina* 1(1) : 6.

Martinez-Oliveira, P., Zuravski, L., de Oliveira, M.F. (2021) 'Evaluation in vitro of toxicity of hydroalcoholic extract of leaves and roots from yacon (*Smallanthus sonchifolius*)'. *J Med Food* 24(6):660-665.

Maryam, Tahir, M., Azzahra, R. (2023) 'Aktivitas inhibisi enzim alfa-glukosidase dari ekstrak bunga kersen (*Muntingia calabura* L.) secara in vitro', *Makassar Pharmaceutical Science Journal* 1(3) : 155.Maryam, S. (2015) 'Kadar antioksidan dan IC_{50} tempe kacang merah (Phaseulus vulgaris L) yang difermentasi dengan lama fermentasi bebeda', *Seminar Nasional FMIPA UNDIKSHA V.*

Mataputun, S.P., Rorong, J.A., Pontoh, J. (2013) 'Aktivitas Aktivitas Inhibitor α-Glukosidase Ekstrak Kulit Batang Matoa (Pometia pinnata. Spp.) sebagai Agen Antihiperglikemik', *Jurnal MIPA UNSTRAT* 2(2) : 120.

Min S.H, Yoon J.H., Hahn S., Cho Y.M. (2018) 'Efficacy and safety of combination therapy with an α-glucosidase inhibitor and a dipeptidyl peptidase-4 inhibitor in patients with type 2 diabetes mellitus: A systematic review with meta-analysis', *J Diabetes Investigation.*

Mondal, A., Guria, T., Maity, T.K. (2015) 'A new ester of fatty acid from a methanol extract of the whole plant of Amaranthus spinosus and its α-glucosidase inhibitory activity', *Pharm Biol* 53(4) : 600-604.

Molyneux, P. (2004) 'The use of the stable free radical diphenylpicrylhydrazyl (DPPH) for estimating antioxidant activity'. *Songklanakarin J.Sci.Technol.* 26(2) : 212-219.

Munteanu, I.G., Apetrei, C. (2021) 'Analytical Methods Used in Determining Antioxidant Activity: A Review', *Int J Mol Sci* 22(7) : 3380.

Murwanto, P.E., Santosa, D. (2012) 'Antioxidant Activity Analysis Of Cynara Scolimus L., Artemisia China L., Borreria Repensdc.,polygala Paniculata L. From Taman Nasional Gunung Merapi Using Dpph (2,2-difenil-1-pikrilhidrazil) Radical Scavenging Analysis'. *Majalah Obat Tradisional* 17(3):53-60.

Navasardyan et al. (2023) 'Role of oxidative stress in tuberculosis meningitis infection in diabetic', *Biomedicines* 11(9) : 1-15.

Nugraha, D., Yusuf, A.L., Wahlanto, P. (2023) 'Narrative review : optimation of ethanol as a solvent for flavonoid compounds in papaya leaf extraction, *Ad-Dawaa Journal of Pharmacy* 1(2) : 107-110.

Okaiyeto K., Adeoye R.I., Oguntibeju O.O. (2021) 'Some common West African spices with antidiabetic potential: A review', *J King Saud Uni Sci,* 33(6):101548.

Papriani, N.P., Ahmad, A., Pamenta, A.F., Natsir, H., Karim, A. (2019) 'Purification and characterization of a-glucosidase enzyme from rice groats', *Journal of Physics : Conference Series* Vol 1341(3):1.

Panche, A.N., Diwan, M., Chandra, S.R. (2016) 'Flavonoid : an overview', *Journal of Nutritional Science* 5:e47.

Patil, P., Mandal, S. Tomar, S.K., Anand, S. (2015) 'Food protein-derived bioactive peptides in management of type 2 diabetes', *European Journal of Nutrition* 54 : 863-880.

Priambodo, Y.B. (2018) 'Uji aktivitas antituberculosis ekstrak etil asetat daun jati (Tectona grandis Linn. F.)' *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

Prince, M.R.U., Zihad, S.M., Ghosh, P., Sifat, N., Rouf, R., Al Shajib, G.M., Alam, M.A., Shilpi, J.A., Uddin, S.J. (2021) 'Amaranthus spinosus Attenuated Obesity-Induced Metabolic Disorders in High-Carbohydrate-High-Fat Diet-Fed Obese Rats' *Front Nutr* 8:653918. doi: 10.3389/fnut.2021.653918.

Putri, A.A., Rija'I, H.R., Rijai, L. (2021) 'Qualitative Test of DPPH Radical Scavenging Activity from Penggugut Leaves (*Knema pallens* W.J.deWilde)'. *14th Proc.Mul.Pharm.Conf,* Pp.10.

Ramadhania, M.Z., Moektiwardojo, M., Tjitraresmi, A., Ramu, S. (2018) 'Antioxidant Activity of Amaranthus spinosus L. (Spiny Pigweed) and Annona squamosa L.', *JPSR 2018*, Pp 240.

Riskesdas. 2018. *Hasil Utama Riskesdas* 2018.

Santosa, D., dan Haresmita, P.P. (2015) 'Penentuan aktivitas antioksidan *Garcinia dulcis (*Roxb.) Kurz, *Blumeamollis (*D.Don) Merr., *Siegesbeckia orientalis* L., dan *Salvia riparia* H.B.K. yang dikoleksi dari taman nasional gunung Merapi dengan metode DPPH (2,2-difenil-1-pikril-hidrazil) serta profil kromatografi lapis tipisnya'. *Triad Med Journal* 20 (1) : 28-36.

Sarker U, Oba S. (2019) 'Nutraceuticals, antioxidant pigments, and phytochemicals in the leaves of Amaranthus spinosus and Amaranthus viridis weedy species', *Sci Rep* 9:20413. doi: 10.1038/s41598-019-50977-5

Savitri, A., Megantara, S. (2019) 'Metode KLT-Densitometri sebagai penetapan kadar bahan aktif sediaan farmasi', *Farmaka* 17(2) : 459.

Seo, S.Y., Sancheti, S., & Sancheti, S. (2009) 'Chaenomeles Sinensis: A Potent α- and β-Glucosidase Inhibitor', *American Journal of Pharmacology and Toxicology*, 4(1), 8–11.

Setiawan, F., Yunita, O., Kurniawan, A. (2018) 'Uji aktivitas antioksidan ekstrak etanol kayu secang (*Caesalpinia sappan)* menggunakan metode DPPH, ABTS, dan FRAP' Fakultas Farmasi Universitas Surabaya, Surabaya.

Sumarlin, L.O., Sukandar, D., Pratiwi, L. (2019) 'Aktivitas penghambatan a-glukosidase campuran ekstrak daun namnam (*Cynometra Cauliflora L.)* dan madu kaliandra'. *Al-Kimiya* 6(2) : 87-94.

Sulistyaningsih, Fimansyah, Tjitraresmi A. (2016) 'Uji Aktivitas Ekstrak Etanol Bayam Duri (*Amaranthus spinosus L*) terhadap Bakteri *Staphylococcus aureus* dan *Pseudomonas aeruginosa* dengan Metode Difusi Agar', *Jurnal Farmaka* 14 (1) : 98-99.

Taupik, M., *et al.* (2022) 'Identifikasi Senyawa Metabolit Sekunder Daun Spigelia anthelmia L. dan Uji Aktifitas Antioksidan Menggunakan Metode DPPH (1,1 Diphenyl-2-Picrylhidrazy)', Journal Syifa Sciences and Clinical Research 4(3)

Theodora, C.T., Gunawan, I.W.G., & Swantara I.M.D. (2019) 'Isolasi dan Identifikasi Golongan Flavonoid pada Ekstrak Etil Asetat Daun Gedi (*Abelmoschus manihot L.)*', *Journal of Chemistry*, 13 (2), 131-138.

Widyanto et al. (2021) 'Studies on the antioxidant and cytotoxic potentials of the peel extract of dacryodes rostrata', *BIO Web of Conferences* 41: 2.

Wulansari, A.N. (2018) 'Alternatif cantigi ungu (Vaccinium varingiaefolium) sebagai antioksidan alami : review', *Farmaka Suplemen* 16 (2) : 425.

Yang H.K, *et al*. (2019) 'Acarbose Add-on Therapy in Patients with Type 2 Diabetes Mellitus with Metformin and Sitagliptin Failure: A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study', *Diabetes Metab J* 43(3), Pp.287-301.

Zhang M. *et al.* (2019) 'Effects of metformin, acarbose, and sitagliptin monotherapy on gut microbiota in Zucker diabetic fatty rats'. *BMJ Open Diabetes Res Care* 7(1):e000717.

Zhang, Y., Cai, P., Zhang, Y. (2022) 'A brief review of phenolic compounds identified from plants : their extraction, analysis, and biological activity'. *Natural Product Communications* 17(1).