

DAFTAR PUSTAKA

- Abdul Q., Shahzadi M., Bashir S.K., A., Munir, A., dan Shahzad, S., 2017, Evaluation of phenolic compounds and antioxidant and antimicrobial activities of some common herbs, *International journal of analytical chemistry*.
- Akhlaghi, M., dan Bandy, B., 2009, Mechanisms of flavonoid protection against myocardial ischemia–reperfusion injury, *Journal of molecular and cellular cardiology*, 46(3), 309-317.
- Amarowicz, R., Naczek, M., dan Shahidi, F, 2000, Antioxidant activity of various fractions of non-tannin phenolics of canola hulls, *Journal of Agricultural and Food Chemistry*, 48(7), 2755-2759.
- Amir, M., Khan, A., Mujeeb, M., Ahmad, A., Usmani, S., dan Akhtar, M., 2011, Phytochemical analysis and in vitro antioxidant activity of *Zingiber officinale*, *Free Radicals and Antioxidants*, 1(4), 75-81.
- Apak, R., Güçlü, K., Demirata, B., Özyürek, M., Çelik, S., Bektaşoğlu, B dan Özyurt, D., 2007, Comparative evaluation of various total antioxidant capacity assays applied to phenolic compounds with the CUPRAC assay, *Molecules*, 12(7), 1496-1547.
- Benzie, I. F., dan Strain, J. J., 1996, The ferric reducing ability of plasma (FRAP) as a measure of “antioxidant power”: the FRAP assay, *Analytical biochemistry*, 239(1), 70-76.
- Berker, K. I., Güçlü, K., Tor, İ., Demirata, B., dan Apak, R., 2010, Total antioxidant capacity assay using optimized ferricyanide/prussian blue method, *Food Analytical Methods*, 3(3), 154-168.
- Bhandari, U., dan Pillai, K. K, 2005, Effect of ethanolic extract of *Zingiber officinale* on dyslipidaemia in diabetic rats, *Journal of ethnopharmacology*, 97(2), 227-230.
- Bolobajev, J., Trapido, M., dan Goi, A., 2015, Improvement in iron activation ability of alachlor Fenton-like oxidation by ascorbic acid, *Chemical Engineering Journal*, 281, 566-574
- Budiyanto dan Yulianingsih, 2008, Pengaruh Suhu Dan Waktu Ekstraksi Terhadap Karakter Pektin Dari Ampas Jeruk Siam (*Citrus nobilis L*), *Balai Besar Penelitian dan Pengembangan Pascapanen Pertanian*, Bogor.

- Chang, C. C., Yang, M. H., Wen, H. M., dan Chern, J. C., 2002, Estimation of total flavonoid content in propolis by two complementary colorimetric methods, *Journal of food and drug analysis*, 10(3).
- Darwis, D, 2000, *Teknik Dasar Laboratorium Dalam Penelitian Senyawa Bahan Alam Hayati*, Workshop Pengembangan Sumber Daya Manusia Dalam Bidang Kimia Organik Bahan Alam Hayati FMIPA Universitas Andalas, Padang.
- Day, R A, dan Underwood, A L., 2002, *Analisis Kimia Kuantitatif Edisi Keenam*, Erlangga, Jakarta.
- Departemen Kesehatan Republik Indonesia, 2002, *Parameter Standar Umum Ekstrak Tumbuhan Obat*, Direktorat Jendral POM-Departemen Kesehatan Republik Indonesia, Jakarta.
- Dhanik, J., Verma, A., Arya, N., dan Nand, V, 2017, Chemical profiling and antioxidant activity of essential oil of *Zingiber officinale* Roscoe from two different altitudes of Uttarakhand, *Journal of Essential Oil Bearing Plants*, 20(6), 1547-1556.
- Febriani, Y., Riasari, H., Winingsih, W., Aulifa, D. L., dan Permatasari, A., 2018, The potential use of red ginger (*Zingiber officinale* Roscoe) dregs as analgesic, *Indonesian Journal of Pharmaceutical Science and Technology*, 1(1), 57-64.
- Fidrianny, I., Aristya, T., dan Hartati, R., 2015, Antioxidant capacities of various leaves extracts from three species of legumes and correlation with total flavonoid, phenolic, carotenoid content, *International Journal of Pharmacognosy and Phytochemical Research*, 7(3), 628-634.
- Fidrianny, L. I., Darmawati, A., dan Sukrasn, O., 2014, Antioxidant capacities from different polarities extracts of Ginger Rhizome using frap, dpph assays and correlation with phenolic, flavonoid, carotenoid content, *Int J Pharm Pharmaceut Sci*, 6(2), 857-862.
- Gagas U., 2014, *Sehat Alami dengan Herbal Tanaman Herbal Berkhasiat Obat*. PT Gramedia Pustaka Utama, Jakarta.
- Gamse T, 2002, *Liquid-Liquid Extraction and Solid-Liquid Extraction*, Graz University of Technology.
- Gandjar, I. G. dan Rohman, A., 2007, *Kimia Farmasi Analisis*, Pustaka Pelajar, Yogyakarta.

- Giovanetti, R., 2012, The use of spectrophotometry UV-Vis for the study of porphyrins, *Macro to nano spectroscopy*, 1, 87-108.
- Gorinstein, S., Leontowicz, H., Leontowicz, M., Drzewiecki, J., Najman, K., Katrich, E dan Trakhtenberg, S., 2006, Raw and boiled garlic enhances plasma antioxidant activity and improves plasma lipid metabolism in cholesterol-fed rats, *Life Sciences*, 78(6), 655-663.
- Gupta, M., Karmakar, N., dan Sasmal, S., 2017, In vitro antioxidant activity of aqueous and alcoholic extracts of polyherbal formulation consisting of *Ficus glomerata* Roxb. and *Symplocos racemosa* Roxb. stem bark assessed in free radical scavenging assays, *Int J Pharmacog Phytochem Res*, 9, 181-9.
- Habsah, M., Amran, M., Mackeen, M. M., Lajis, N. H., Kikuzaki, H., Nakatani, N., dan Ali, A. M., 2000, Screening of Zingiberaceae extracts for antimicrobial and antioxidant activities, *Journal of ethnopharmacology*, 72(3), 403-410.
- Harborne, J.B., 1987, Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan, Penerbit ITB, Bandung.
- Jamir, K., dan Kottapalli, S., 2017, Phytochemical and antimicrobial evaluation of methanolic extracts of selected Zingiberaceae taxa from Peren district, Nagaland, Northeast India, *The EuroBiotech Journal*, 1(4), 337-344.
- Jun M, Fu HY, Hong J, Wang X, Yang CS, Ho CT, 2006, Comparison of antioxidant activities of isoflavones from kudzu root (*Pueraria lobate ohwi*), *J of Food Science*.
- Kantayos, V., dan Paisooksantivatana, Y., 2012, Antioxidant activity and selected chemical components of 10 Zingiber spp. in Thailand. *Journal of Developments in Sustainable Agriculture*, 7(1), 89-96.
- Khomsug, P., Thongjaroenbuangam, W., Pakdeenarong, N., Suttajit, M., dan Chantiratikul, P., 2010, Antioxidative activities and phenolic content of extracts from okra (*Abelmoschus esculentus* L.), *Research Journal of Biological Sciences*, 5(4), 310-313.
- Krishartanti, Deffi, 2013, Pengaruh pemberian campuran madu kelengkeng (*nephelium longata l.*) dan ekstrak etanolik jahe emprit *Zingiber officinale roscoe* terhadap jumlah sel darah putih pada tikus jantan galur wistar, *Skripsi*, Jurusan Farmasi, Univeritas Sanata Darma, Yogyakarta.
- Markham, K.R., 1988, *Cara Mengidentifikasi Flavonoid*, diterjemahkan oleh Kosasih Padmawinata, 15, Penerbit ITB, Bandung

- Marliani, L., Subarnas, A., Moelyono, M. W., Halimah, E., Pratiwi, F. W., dan Suhardiman, A., 2018, Essential Oil Components of Leaves and Rhizome of *Zingiber ottensii* Val. from Bandung, Indonesia, *Res J Chem Environ*, 22.
- Maryam, S., Baits, M., dan Nadia, A., 2015, Pengukuran aktivitas antioksidan ekstrak etanol daun kelor (*Moringa oleifera* Lam.) menggunakan metode FRAP (*Ferric Reducing Antioxidant Power*), *Jurnal Fitofarmaka Indonesia*, 2(2), 115-118.
- Nanasombat, S., Bubpasawan, T., Tamaput, N., dan Srimakhan, Y., 2014, Antimicrobial activity of Thai medicinal plants against beverage spoilage microorganisms and their potential in retarding Alzheimer's disease progression, *Pharmacog Commun*, 4, 77-87.
- Oyaizu, M., 1986, Studies on products of browning reaction prepared from glucose amine products derived from bees, *J Pharm Biomed Anal*, 41, 1220-34.
- Pabón-Baquero, L. C., Otálvaro-Álvarez, Á. M., Fernández, M. R. R., dan Chaparro-González, M. P., 2018, Plant Extracts as Antioxidant Additives for Food Industry, *Antioxidants in Foods and Its Applications*, 87.
- Patonah, Sulaeman, A., dan Dewi, N. F., 2017, Potensi Rimpang Bangle Hantu (*Zingiber Ottensii* Val.) sebagai Antihiperqlikemia pada Model Hewan Diabetes yang Diinduksi Fruktosa, *Jurnal Farmasi Galenika*, 4 (Edisi Khusus), 54-62.
- Prasad, R., Kumar, M., dan Kumar, V. (Eds.), 2017, Nanotechnology: An agricultural paradigm, *Springer*.
- Rani, M. P., Krishna, M. S., Padmakumari, K. P., Raghu, K. G., dan Sundaresan, A., 2012, *Zingiber officinale* extract exhibits antidiabetic potential via modulating glucose uptake, protein glycation and inhibiting adipocyte differentiation: an in vitro study, *Journal of the Science of Food and Agriculture*, 92(9), 1948- 1955.
- Rusdi, M., Hasan, T., Ardillah, A., dan Evianti, E., 2018, Perbandingan Metode Ekstraksi terhadap Kadar Flavonoid Total dan Aktivitas Antioksidan Batang *Boehmeria virgate*, *ad-Dawaa'Journal of Pharmaceutical Sciences*, 1(1).
- Sa'adah, H., dan Nurhasnawati, H., 2015, Perbandingan pelarut etanol dan air pada pembuatan ekstrak umbi bawang tiwai (*Eleutherine americana* Merr) menggunakan metode maserasi, *Jurnal ilmiah manuntung*, 1(2), 149-153.
- Saifudin, A., 2012, *Senyawa Alam Metabolit Sekunder Teori, Konsep, Dan Teknik Pemurnian*, Deepublish, Surakarta.

- Saifudin, A., 2011, *Standarisasi Bahan Obat Alam Edisi Pertama*, Graha Ilmu, Yogyakarta.
- Sharifi-Rad, M., Varoni, E., Salehi, B., Sharifi-Rad, J., Matthews, K., Ayatollahi, S., dan Sharifi-Rad, M., 2017, Plants of the genus *Zingiber* as a source of bioactive phytochemicals: From tradition to pharmacy, *Molecules*, 22(12), 2145.
- Shil, S., Rao, M. R. K., Prabhu, K., dan Amuthvalli, K., 2018, Thin Layer Chromatography-As A Tool For Standardization Of Ayurvedic Medicine, *Trikatu Churna*, *Indo American Journal Of Pharmaceutical Sciences*, 5(6), 5039-5046.
- Sinaga, E., dan Suprihatin, W. I., 2013, Perbandingan daya sitotoksik ekstrak rimpang 3 jenis tumbuhan Zingiberaceae terhadap sel kanker MCF-7, *Jurnal Farmasi Indonesia*, 5(3), 125-133.
- Sulaiman, F. A., Kazeem, M. O., Waheed, A. M., Temowo, S. O., Azeez, I. O., Zubair, F. I., dan Adeyemi, O. S., 2014), Antimicrobial and toxic potential of aqueous extracts of *Allium sativum*, *Hibiscus sabdariffa* and *Zingiber officinale* in Wistar rats, *Journal of Taibah University for Science*, 8(4), 315-322.
- Tafulo, P. A. R., Queirós, R. B., Delerue-Matos, C. M., dan Sales, M. G. F., 2010, Control and comparison of the antioxidant capacity of beers, *Food Research International*, 43(6), 1702-1709.
- Tasnim, R., Al Amin, M. Y., dan Pervin, N., 2018, In vitro antimicrobial and antioxidant activity of methanolic extract of *Zingiber officinale*.
- Thaipong, K., Boonprakob, U., Crosby, K., Cisneros-Zevallos, L., dan Byrne, D. H., 2006, Comparison of ABTS, DPPH, FRAP, and ORAC assays for estimating antioxidant activity from *guava fruit* extracts, *Journal of food composition and analysis*, 19(6-7), 669-675.
- Theanphong, O., Jenjittikul T., dan Mingvasih, W., 2016, Chemotaxonomic study of volatile oils from rhizomes of 9 *Zingiber* species (*Zingiberaceae*), *Thai J Bot*, 8, 127-139.
- Tim Lentera, 2002, *Khasiat Dan Manfaat Jahe Merah Si Rimpang Ajaib*, Agromedia Pustaka, Jakarta.
- Valko, M., Izakovic, M., Mazur, M., Rhodes, C. J., dan Telser, J., 2004, Role of oxygen radicals in DNA damage and cancer incidence, *Molecular and cellular biochemistry*, 266(1-2), 37-56.

- Vijayalakshmi, M., dan Ruckmani, K., 2016, Ferric reducing anti-oxidant power assay in plant extract, *Bangladesh Journal of Pharmacology*, 11(3), 570-572.
- Wagner, H. dan Blatt, S., 1996, *Plant Drug Analysis: A Thin Layer Chromatography Atlas, Second Edition*, Springer, New York.
- Waterhouse, A. L., dan Laurie, V. F., 2006, Oxidation of wine phenolics: A critical evaluation and hypotheses, *American Journal of Enology and Viticulture*, 57(3), 306-313.
- Winarsi, 2010, *Antioksidan Alami dan Radikal Bebas*, Kanisius, Yogyakarta.
- Wulandari, 2011, *Kromatografi Lapis Tipis*, PT. Taman Kampus Presindo, Jember.
- Yu, L., Haley, S., Perret, J., Harris, M., Wilson, J., dan Qian, M., 2002, Free radical scavenging properties of wheat extract, *Journal of Agricultural and Food Chemistry*, 50(6), 1619-1624.
- Yusmar, 2019, Penetapan kadar flavonoid dan kartotenoid dari ekstrak dan fraksi rimpang bangle hantu (*Zingiber ottensi* Val.), *Skripsi*, Program Studi Strata Jurusan Farmasi, Sekolah Tinggi Farmasi, Bandung.