

DAFTAR PUSTAKA

- Ali, A., Ali, A., Bakht, M.A., and Ahsan, M.J., 2021, Ultrasound promoted synthesis of N-(substituted phenyl)-2-(7-hydroxy-4-methyl-2*H*-chromen-2-ylidene)hydrazine-1-carboxamides as cytotoxic and antioxidant agent, *J. Mol. Struct.*, 1238, 1-9.
- Andersen, O., and Markham, K., 2006, *Flavonoids: chemistry, biochemistry and applications*, CRC Press, Boca Raton.
- Anwar, C., Prasetyo, Y.D., Matsjeh, S., Haryadi, W., Sholikhah, E.N., and Nendrowati., 2018, Synthesis of Chalcone Derivatives and Their *in vitro* Anticancer Test against Breast (T47D) and Colon (WiDr) Cancer Cell Line, *Indones. J. Chem.*, 18 (1), 102–107
- Belitz, H.D., Grosch, w., and Schieberle, P., 2009, *Food Chemistry*, 4th ed., springer-verlag GmbH, Heidelberg, 187.
- Blois, M.S., 1958, Antioxidant Determinations by the Use of a Stable Free Radical, *Nature*, 26, 1199–1200
- Boulebd, H., 2020, Comparative study of the radical scavenging behavior of ascorbic acid, BHT, BHA and Trolox: Experimental and theoretical study, *J. Mol. Struct.*, 1201, 127210, 1-7.
- Brand-williams, W., Cuvelier, M.E., and Berset, C., 1995, Use of a Free Radical Method to Evaluate Antioxidant Activity. *Lebensm Wiss Technol.*, 28, 25–30.
- Charles, D.J., 2013, *Antioxidant Properties of Spices, Herbs and Other Sources*, Springer Science+Business Media New York.
- Davies, K.J., 1995, Oxidative stress: the paradox of aerobic life, *Biochem Soc Symp*, 61, 1–31.
- Díaz-Rubio, L., Hernández-Martínez, R., Estolano-Cobián, A., Chávez-Velasco, D., Salazar-Aranda, R., Torres, N.W.D., Rivero, I.A., García-González, V., Ramos, M.A., and Córdova-Guerrero, I., 2019, Synthesis, Biological Evaluation and Docking Studies of Chalcone and Flavone Analogs as Antioxidants and Acetylcholinesterase Inhibitors, *Appl. Sci.*, 9 (410), 3-20.
- Fessenden, R.J., and Fessenden, J.S., 1986, *Organic Chemistry*, 3rd. ed, Wadsworth Inc., Belmont, California.
- Fitri, N., 2014, Butylated Hydroxyanilose sebagai Bahan Aditif Antioksidan pada Makanan Dilihat dari Perspektif Kesehatan, *Jurnal Kefarmasian Indonesia*, 4(1), 41-50.

- Foti, M.C., 2015, Use and Abuse of the **DPPH** Radical, *J. Agric. Food Chem.*, 63, 8765–8776
- Hann, R.M., and Spencer, G.C., 1927, The Preparation of Chloro Aniline and Some of its Derivatives, *J. Am. Chem. Soc.*, 49 (2), 535-537.
- Huang, D., Ou, B., and Prior, R.L., 2005, The Chemistry behind Antioxidant Capacity Assays, *J. Agric. Food Chem.*, 53, 1841–1856.
- Hurell, R., 2003, Influence of Vegetable Protein Source on Trace Element and Mineral Bioavailability, *J Nutr.*, 133 (9), 2973-2977.
- Isnidar, wadhaningsih, S., and Pratiwi, D., 2011, The Test of Antioxidant Activity from Bawang Mekah Leaves (*Eleutherine Americana* Merr) Using DPPH (2,2-Diphenyl-1-Picrylhydrazil) Method, *Trad. Med. J.*, 18 (1), 9-6.
- Jatmika, C., Manggadani, B.P., dan Hayun., 2015, Evaluasi Aktivitas Antioksidan Senyawa 4-[(E)-2-(4-okso-3-fenilkuinazolin-2-il) Etenil]-benzenesulfonamida dan Analognya, *Pharm Sci Res.*, 3(3), 143-151.
- Kaur, N., and Kishore, K., 2012, Montmorillonite: An efficient, heterogeneous and green catalyst for organic synthesis, *J. Chem. Pharm. Res.*, 4(2), 991-1015.
- Kozłowska, A., and Szostak-Węgierek, D., 2014, Flavonoids - Food Sources and Health Benefits, *Rocz Panstw Zakl Hig*, 65 (2), 79-85.
- Lestari, E., Matsjeh, S., dan Swasono, R.T., 2018, Sintesis Senyawa Turunan Khalkon dan Flavon Berbahan Dasar Vanilin dan Uji Sitotoksik Terhadap Sel Kanker Serviks (Hela), Sel Kanker Kolon (Widr), dan Sel Kanker Payudara (T47D) Secara In Vitro, *Berkala MIPA*, 25 (1), 53-65.
- Markham, K.R., 1982, *Techniques of flavanoid Identification*, Academic Press, London
- Matsjeh, S., Swasono, R.T., Anwar, C., Solikhah, E.N., and Lestari, E., 2017, *Synthesis Of 2',4-Dihydroxy-3-Methoxychalcone And 2',4',4'-Trihydroxy-3-Methoxychalcone As A Candidate Anticancer Against Cervical (Widr), Colon (Hela), And Breast (T47d) Cancer Cell Lines In Vitro*, AIP Conf. Proc. 1823, 020048-1–020048-5.
- Mcivor, R.A., and Pepper, J.M., 1953, The Reaction of 5-Bromovanillin and Sodium Methoxide, *Can. J. Chem.*, 31, 298-302.
- Molyneux, P., 2004, The use of the stable free radical diphenylpicrylhydrazyl (DPPH) for estimating antioxidant activity, *J. Sci. Technol.*, 26 (2), 212-219.

- Murray, R.K., Granner, D.K., dan Rodwell, V.W., 2009, *Biokimia Harper*, (Andri Hartono), Edisi 27, Penerbit Buku Kedokteran, EGC, Jakarta.
- Nagendrappa, G., 2002, Organic Synthesis using Clay Catalysts, *Resonance*, 64-77.
- Noushini, S., Alipour, E., Emami, S., Safavi, M., Ardestani, S.K., Gohari, A.R., Shafiee, A., and Foroumadi, A., 2013, Synthesis and cytotoxic properties of novel (E)-3-benzylidene-7-methoxychroman-4-one derivatives, *DARU J. Pharm. Sci.*, 21 (31), 1-10
- Osawa, T., Uritani, I., Garcia, V.V., Mendoza, E.M. M. Eds., 1994, *Novel natural antioxidants for utilization in food and biological systems*. In Postharvest Biochemistry of plant Food-Materials in the Tropics, Japan Scientific Societies Press: Tokyo, Japan, 241-251.
- Panche, A.N., Diwan A. D., and Chandra S. R., 2016, Flavonoids: an overview, *J. Nutr. Sci.*, 5 (47), 1-15.
- Parwata, I.M.O.A., 2016, Antioksidan, *Bahan Ajar*, Kimia Terapan Program Pascasarjana Universitas Udayana, Bali.
- Patel, S., And Shah, U., 2017, Synthesis of Flavones from 2-hydroxyacetophenone and Aromatic Aldehyde Derivates by Conventional Methods and Green Chemistry Approach, *Asian J. Pharm. Clin. Res.*, 10 (2), 403-406.
- Prior, R.L., Wu, X., and Schaich, K., 2005, Standardized Methods for the Determination of Antioxidant Capacity and Phenolics in Foods and Dietary Supplements, *J. Agric. Food Chem*, 53, 4290-4302.
- Sadikin, M., 2001, "Pelacakan Radikal Bebas Terhadap Molekul". Dalam *Kumpulan Makalah Penelitian: Radikal Bebas dan Antioksidan dalam Kesehatan*, Fakultas Kedokteran UI, Jakarta.
- Sanchez-Moreno, C., Larrauri, J.A., and Saura-Calixto, F., 1998, A Procedure to Measure the Antiradical Efficiency of Polyphenols, *J. Sci. Food Agric.*, 76, 270-276.
- Setha, B., Gaspersz, F.F., Idris, A.P.S., Rahman, S., and Meigy Nelce Mailoa., 2013, Potential Of Seaweed Padina Sp. As A Source Of Antioxidant, *Int. J. Sci. Res.*, 2(6), 221-224.
- Setyawati, A., Wahyuningsih, T.D., and Purwono, B., 2017, *Synthesis and Characterization of Novel Benzohydrazide as Potential Antibacterial Agents from Natural Product Vanillin and Wintergreen Oil*, AIP Conf. Proc. 1823, 020121-1-020121-8.

- Shahidi, F., and Ambigaipalan, P., 2015, Phenolics and polyphenolics in foods, beverages and spices: Antioxidant activity and health effects –A review, *J. Funct. Foods.*, 18, 820–897.
- Shahidi, F., and Zhong, Y., 2015, Measurement of antioxidant activity, *J. Funct. Foods.*, 18, 757–781.
- Shimamura, T., Sumikura, Y., Yamazaki, T., Tada, A., Kashiwagi, T., Ishikawa, K., Matsui, T., Sugimoto, N., Akiyama, H., and Ukeda, H., 2014, Applicability of the DPPH Assay for the Evaluating The Antioxidant Capacity of Food Additives-Inter-Laboratory Evaluation Study, *Anal. Sci.*, 30, 717-721.
- Tai, A., Sawano, T., Yazama, F., and Ito, H., 2011, Evaluation of antioxidant activity of vanillin by using multiple antioxidant assays, *Biochim Biophys Acta.*, 1810, 170–177.
- Ubba, E., and Khan, F.R.N., 2020, Regioselective Synthesis of Unsymmetrical 3-(Quinolin-3-yl)Pentane-1,5-Diones in the Aqueous Medium through Montmorillonite KSF Catalysis, *Polycycl Aromat Compd.*, 1-9.
- Velioglu, Y.S., Mazza, G., Gao, L., and Oomah, B.D., 1998, Antioxidant Activity and Total Phenolics in Selected Fruits, Vegetables, and Grain Products, *J. Agric. Food Chem.*, 46, 4113-4117.
- Warsi, Sardjiman, dan Riyanto, S., 2012, Sintesis 4-hidroksi-5-kloro-3-metoksibenzaldehid dan Elusidasi Strukturnya, *Jurnal Ilmiah Kefarmasian*, 2 (2), 129 – 139.
- Williams, D.H., and Fleming, I., 1980, *Spectroscopic Methods in Organic Chemistry*, McGRAW-Hill Book Company (UK) Limited.
- Winarsi, H., 2007, *Antioksidan Alami Dan Radikal Bebas*, Kasinus, Yogyakarta.
- Wu, L.C., Hsu, H.W., Chen, Y., Chiu, C.C., and Ho, I.Y., 2009, Antioxidant and Antiproliferative Activities of Red Pitaya, *Food Chem.*, 95 (2), 319-327.
- Zhuang, C., Zhang, W., Sheng, C., Zhang, W., Xing, C., and Miao, Z., 2017, Chalcone: A Privileged Structure in Medicinal Chemistry, *Chem. Rev.*, 117, 7762–7810.