

DAFTAR PUSTAKA

- Abdelwahab, IS., dkk, 2011 The Methanolic Extract of *Boesenbergia rotunda* (L) Mansf, and its Major Compound Pinostrobin Induces-anti ulcerogenic Property In vivo : Possible Involvement of Indirect Antioxidant Action. *Journal of Ethnopharmacology*, 137: 963-970.
- Azahra, A., 2015. Aktivitas Antioksidan Ekstrak Daun Sukun (*Artocarpus altilis*(Park.) Fosberg) dengan Metode FRAP Serta Penetapan Kandungan Fenolik dan Flavanoidnya, *Skripsi*, Universitas Gadjah Mada, Yogyakarta.
- Amarowicz R, Naczek M, dan Shahidi F, 2000. Antioxidant Activity of Crude Tannins of Canola and Rapeseed hulls. *Journal of the American Oil Chemists' Society*, **77**: 957–961.
- Anonim, 1977. *Materia Medika Indonesia, Jilid I*, I. ed. Depkes RI, Jakarta.
- Anonim, 1986. *Sediaan Galenik*. Depkes RI.
- Anonim, 2010. *Monografi Ekstrak Tumbuhan Obat Indonesia*. Direktorat Standarisasi Obat Tradisional, kosmetik dan produk komplemen, BPOM RI, Jakarta.
- Anonim, 2015. Temu Kunci (*Boesenbergia pandurata*), CRRC, Fakultas Farmasi UGM Yogyakarta. http://ccrc.farmasi.ugm.ac.id/?page_id=166. diakses 4 Agustus 2015.
- Ardrey, R. E., 2003, *Liquid chromatography-mass spectrometry: an introduction*, 185, John Wiley & Sons, New York.
- Atkins, P.W., Jones, L., dan Laverman, L.E., 2013. *Chemical Principles*. W.H. Freeman.
- Atun, S., et all (2013). Isolation and Antimutagenic Activity of Some Flavanone Compounds from *Kaemferia rotunda*. *International Journal of Chemical and analytical science* . 4:3-8.

- Backer, C.A., D.Sc. dan R.C. Bakhuizen van Den Brink Jr., Ph.D, 1965. *Flora of Java (Spermatophytes Only)*. Published Under The Auspices of The Rijkner Barium, Lieden.
- Botta, B, Delle Monache, g, Menendez, P, Boffi, 2005. A novel prenyltransferase enzymes as a tool for flavanoid prenylation. *Trends in Pharmacological Sciences*, **26**: 606–608.
- Breitmaier, E. dan Voelter, W., 1987. Carbon-13 NMR Spectroscopy :High-resolution methods and applications in organic chemistry and biochemistry. VCH Publisher.
- Canel, Richard, J.P, 1998. *How to Approach the Isolation of a Natural Product, Natural Products Isolation 1-5, Edited by R.J.p. Canel*,. humana press Inc., Totowa, New Jersey.
- Chahyadi, A., Hartati, R., Wirasutisna, K.R., dan Elfahmi, 2014. *Boesenbergia Pandurata* Roxb., An Indonesian Medicinal Plant: Phytochemistry, Biological Activity, Plant Biotechnology. *Procedia Chemistry*, , *International Seminar on Natural Product Medicines, ISNPM 2012* **13**: 13–37.
- Chapman & Hall. 1994. Dictionary of Natural Products Volume Two D-F, Scientific Data Division. London. Glasgow. New York. Tokyo. Melbourne. Madras.
- Charoonratana, T., et al. 2014. Development and Validation Of LC-MS Method For Quantitative Analysis Of A Traditional Thai Antihypertensive Herbal Recipe. *International Journal of Pharmacy and Pharmaceutical Sciences* 2014 **6**:0
- Cheenpracha, S., dkk, 2005. Anti-HIV-1 Protease Activity of Compounds from *Boesenbergia pandurata*. *Bioorganic and Medicinal Chemistry* (14): 1710-1714.
- Ching, Amy Y.L, Wah, Tang S., , Mohd A, Lian, Gwendoline EC, Rahmani, M, dan Khalid, K, 2007. Characterization of Flavanoid Derivates from *Boesenbergia rotunda* (L). *The Malaysian Journal of Analytical Sciences*, **11**: 154–159.
- Creswell, Clifford, J., 1982. Analisis Spektrum Senyawa Organik, Penerbit ITB, Bandung.

- Dalimartha S dan Soedibyo M.B.R.A, 1999. 'awet muda dengan tumbuhan Obat dan diet Suplemen', . *Trubus agriwidya Semarang*, 1–8.
- Davideck, Macek K, 1997., *Pharmaceutical Applications of Thin Layer Chromatography*, Amsterdam, London, New York, pp. 569, 608-611. *Elsevier Publishing Company*, **569**: 608–611.
- Dianawati,S., dan Sugiarto,R.D., 2013, Studi Gangguan Ag(I) dalam Analisa Besi dengan Pengompleks *o-fenantrolin* pada pH 4,5 secara Spektrofotometri UV-Vis, *Jurnal Sains dan Seni pomots*, 2 (2), 2337-3520.
- Edhisambada, n.d. *Antioksidan dan Radikal Bebas*. *edhisambada*, .
- Fessenden R.J, Fessenden.J.S, 1997. *Kimia Organik, Diterjemahkan Oleh Aloysius Hadyana Pudjaatmaka*, 3rd ed, 1. Erlangga, Jakarta.
- Forhoosh R, 2005. Antioxidant Activity and mechanism of action of butein in linoleic acid. *journal food chemical*, **93**: 633–699.
- Foti, M.C, 2007. Antioxidant Properties of Phenols. *J. Pharm. Pharmacol.*, **59**: 1673–1685.
- Gandjar, I. dan Rohman, A., 2007. *Kimia Farmasi Analisis*. Pustaka Pelajar, Yogyakarta.
- Gritter, R.J. dan Gritter, R.J., 1991. , 1991, *Pengantar Kromatografi / Roy J. Gritter, James M. Bobbit, Arthur E. Schwarting; Penerjemah Kosasih Padmawinata; Penyunting Sofia Niksolihin, Pengantar Kromatografi/ Roy J. Gritter, James M. Bobbit, Arthur E Schwarting; Penerjemah Kosasih Padmawinata; Penyunting Sofia Niksolihin.*
- Halliwell, B and Gutteridge, J.M.C., 2000. *Free Radical in Biology and Medicine*. Oxford University Press, New York.
- Hanifa, I.N., 2015. Efek Sitoprotektif dan Antioksidan dari Ekstrak Etanolik Buah Naga Merah (*Hyloreceus polyrhizus*) Dan wortel (*Daucus carota* L). Tesis, Universitas Gadjah Mada, Yogyakarta.

- Harbone JB, 1987. *Metode Fitokimia, Penuntun Cara Modern Menganalisis Tumbuhan, Diterjemahkan Oleh Padmawinata, K., II. ed.* ITB, Bandung.
- Hartono, Rudy. 2008. Asetilasi Pinocembrin Hasil Demetilasi Secara Iradiasi Gelombang Mikro Terhadap Pinostrobin, Bagian Kimia Organik. Skripsi. *ADLN-Perpustakaan Universitas Airlangga.*
- Hasnah, M,S, dkk, 1995, Chemical Constituents of Boesenbergia species. Chemical prospecting in The Malaysian Forest. In Ghazally I, Murtedza .M, Laily D (Eds), Pelanduk Rub. Kuching. Malaysia.
- Heo, S. J., S. H. Cha., K. W. Lee., S. K. Cho. And Y. J. Jeon., 2005. Antioxidant Activities of Chlorophyta and Phaeophyta from Jeju Island. *Algae*, **20**: 251–260.
- Hermani, Rahardjo. M, 2005. Tanaman Berkhasiat Antioksidan, Penebar Swadaya Wisma Hijau, 9-15
- Hostettman, K, Hostettmann, M., Marston, a., 1995. *Cara Kromatografi Preparatif, Diterjemahkan Oleh Kosasih Padmawinata.* ITB, Bandung.
- Hostettman, K., Marston, A., dan Hostettman, M., 1998. *Preparative Chromatography Techniques: Applications in Natural Product Isolation.* Springer
- <https://en.wikipedia.org/wiki/Pinocembrin#/media/File:Pinocembrin.svg>. diakses 4 Agustus 2015.
- Hudson, B.J.F, 1990. food antioxidant. *elsevier applied science, london and New york*, 1–8.
- Hyun, J.M, Mee-Hyang, K, Hoonjoeng, K., Jaeng-kwa, H., dan Hasan, M., 2006. Induction of apoptosis and Cell Cycle Arrest by a Chalcone Panduratin A Isolated from *Kaemferia rotunda* in Androgen Independent Human Prostat Cancer Cells PC3 and DU145,. *Carcinogenesis*, **27**: 1454–1464.
- Hwang .J.K., Jae Youn Chung, Nam -In baek, dan Jung hee park, 2004. *Isopanduratin A from Kaempheria pandurata as an active antibacterial*

agen against carcinogenic *Streptococcus mutans*. *International Journal of Antimicrobial Agents*, **23**: 377–381.

Jenie, U.A., Kardono, L.B.S., Hanafi, M., Rumampuk, R.J., dan Darmawan, A., 2014. *Teknik Modern Spektroskopi NMR: Teori dan Aplikasi dalam Elusidasi Struktur Molekul Organik*. LIPI Press, Jakarta.

Kahkonen, M., Hopia, A., Vuorela, H., Rauha, J., Pihlaja, K., Kuajala, T., dkk., 1999. Antioxidant activity of extracts containing phenolic compounds. *J Agric Food Chem*, **47** : 3954-3962.

Karyantini, V, A,D,W, 2008. 'senyawa penanda analitik dari rimpang temu kunci (*Boesenbergia pandurata* (Roxb.)Schlecht)', *skripsi*., Universitas Gadjah Mada, Yogyakarta.

Khamsah, S.M., Alowah, G., dan Zhari, I., 2006. Antioxidant Activity and Phenolic Content of *Orthosiphon stamineus* Benth from different geographic origin. *J Sust Sci Management*, **1**: 14-20.

Kirana, C., Jones, GP., Record, I. R., McIntosh, G.H (2007). Anticancer properties of Panduratin A Isolated from *Boesenbergia pandurata* (Zingiberaceae), *Journal Natural Medicine*.**61**:131-137.

Kristanti, N.A, Nanik, S.A, Mulyadi, T, Bambang K, 2008, Buku Ajar Fitokimia. Cetakan I, Surabaya, Airlangga University Press. 93-95.

Koko, D., 2015. Isolasi dan Identifikasi Struktur Senyawa Sitotoksik dari Ekstrak Etil Asetat Kultur Fungi Endofit *Trichoderma* sp. dari Jinten (*Coleus amboinicus* Lour), Tesis, Universitas Gadjah Mada, Yogyakarta.

Kowalska, T. dan Sherma, J., 2006. Preparative Layer Chromatography, CRC Press.

Kraj, A., Desiderio, D.M., dan Nibbering, N.M., 2008. *Mass Spectrometry: Instrumen, Interpretation and Applications*. John Wiley & Sons.

Kulisc, T., Redonic, A., Katalinic, V., Milos, M., 2003. Use of Different Methods for Testing Oxidative Activity of Oregano Essential Oil, *Food Chemistry*, **633-640**.

- Kumalaningsih, S., 2006. *Antioksidan Alami : Penangkal Radikal Bebas*. Trubus Agrisiana, Surabaya.
- Listtyaningsih, S., Sismindari, Mubarika, S., Murti, Y.B., 2012. Aktivitas Kemoprevensi Ekstrak Temu Kunci (*Boesenbergia pandurata*) pada Karsinogenesis Kulit Mencit Balb/C terinduksi Radiasi Ultra Violet. Seminar Nasional IX Pendidikan Biologi FKIP UNS.
- Liyaningsih,R dan Suyatno, 2012. Aktivitas Antioksidan senyawa flavanon dari Tumbuhan Paku *Nephrolepis radicans* (Burm.) Kuhn. *Prosiding Seminar Nasional Kimia Unesa, Surabaya*.
- Malik,A.K., 2000, Spectrophotometric Determination of Ferbam Iron (III) Dymethyldithiocarbamat in Commercial Sample and Wheat Grains after Extraction of its Bathophentroline Tetraphenilborate Complex into Molten Naphtalen, *Journal of Agricultural and Food Chemistry*, 48 (9). 4044-4047.
- Medham, J., Jeffery, G.H., Denney, R.C., & Bassett, J., 1994. *Buku Ajar Vogel : Kimia Analisis Kuantitatif Anorganik, 15, Diterjemahkan Oleh A. Hadyana Putjaatmaka, L. Setiono, . Penerbit Buku Kedokteran EGC, Jakarta., jakarta*.
- Melannisa Rosita, Mohammad Da'i, dan Ratih Triastika rahmi, 2011. uji aktivitas penangkap radikal bebas dan penetapan kadar fenolik total ekstrak etanol tiga rimpang genus curcuma dan rimpang temu kunci (*Boesenbergia pandurata*). *pharmacon*, **12**: 40–43.
- Molyneux, P, 2004. The Use of The Stable Free Radical Diphenylpicryl-hydrazil (DPPH) for Estimating Antioxidant Activity. *Songklanakarinn J. Science Technology*, **26**: 211–219.
- Morikawa, T., Funakoshi, K, Ninomulya, K, Yasuda D., Miyagawa, K., Matsuda H and Yoshikawa, N., 2008. Structure of New Phenylchalcones and Prenylflavanones With TNF - α and Amino Peptidase N Inhibitory Activities From *Boesenbergia rotunda*, *Chem Pharm, Bull* 56(7), 956-962.
- Mukti, P.D., 2008. 'Isolasi dan Identifikasi senyawa kimia dalam fraksi etil asteta dari ekstrak metanol Rimpang Temu Kunci (*Boesenbergia pandurata*(Roxb) Schlecht.', *skripsi*. Universitas Gadjah Mada, Yogyakarta.

- Mulja M dan Suharnan, 1995. *Analisis Instrumental*. Penerbit Airlangga University Press, Surabaya.
- Nayeem, N, SMB, 2006. Gallic Acid : A promising Lead Molecule for Drug Development. *Journal of Applied Pharmacy*. 82.
- Nihlati, A. I, Abdul Rohman, dan Triana Hertiani, 2008. Antioxidant Activity of Temu Kunci [*Boesenbergia pandurata* (Roxb.) Schlecht] Rhizome Ethanolic Extract by The DPPH Radical Scavenging Method (1,1-diphenyl-2-picrylhydrazyl).
- Nina Salamah dan Nuroshoimah, 2014. Antioxidant Activity Ethanolic Extract of *Centella asiatica* HERB Using Beta Caroten-Linoleat Method, *Farmasains*, 2(4).
- Othman dan Azizah, 2005. Antioxidant Capacity and Phenolic Content of Cocoa Beans. *Journal of Food Chemistry*, 100:1523-1530
- Pangchaeroen, O, 2002. *Technology Chao Barn*. Matichon Press, Bangkok.
- Patterson, C. A., 2006, Markers and Natural Health Products, Wellnes Ewst Technplogy Watch, Canada
- Pavia, D., Lampman, G., Kriz, G., dan Vyvyaan, J., 2014. *Introduction to Spectroscopy*. Cengage Learning.
- Pedrilli, P., 2001 Antioxidant mechanism of flavanoids, solvent effect on rate constant for chain breaking reaction of quersetin and epicatechin autooxidation of methyl linoleat. *J. Agric Food Chem*, **49**: 114–119.
- Phang W C, Sri A M N, Halijah I and Norhanom A.W, 2011. Antioxidant properties of crude and fractionated extracts of *Alpinia mutica* rhizomes and their total phenolic content. *African Journal of Pharmacy and Pharmacology*, 5(7): 842-852.
- Poerwono Hadi, Shigeru Sasaki, Yoshiyuki Hattori, dan Kimio Higashiyama, 2010. Efficient microwave-assisted prenylation of pinostrobin and biological evaluation of its derivatives as antitumor agents. *bioorganic & medicinal Chemistry*, **20**: 2086–2089.

- Pokorny J, Yanishilieva N, dan Gordon M, 2001. *Antioxidant in Food; Practical Application*. CRC press.
- Prakash, A., 2001. Antioxidant Activity Medallion Laboratories analytical progress. *A publication of Medallion Labs*, **19**: 1–4.
- Prieto, M.A, Rodriguez-Amado, I, Vazquez, J.A., dan Murado, M.A., 2012. β -Carotene Assay Revisited. Application to Characterize and Quantify Antioxidant and Prooxidant Activities in a Microplate. *J. Agric Food Chem*, **6**: 8983–8993.
- Prochazkova D, Bousova I, Wilhelmova N., 2011. Antioxidant and Prooxidant Properties of Flavanoids. *Fitoterapia* vol 82 : 4: 513-523.
- <http://pubchem.ncbi.nlm.nih.gov/compound/Pinostrobin#section=Top>, diakses 4 Agustus 2015.
- Pujimulyani, D., 2003. Pengaruh bleaching terhadap sifat antioksidan sirup kunir putih (*Curcuma mangga*, Val.), *agritech*, **23**: 137–141.
- Purba, E.r. dan Martono, M., 2009. Kurkumin sebagai senyawa antioksidan, *Prosiding Seminar Nasional Sains dan pendidikan Sains IV*, fakultas Sains dan Matematika UKSW, Salatiga, 3,607-621.
- Regina, A., Yovita, L dan Maimunah, 2008. Penentuan Aktivitas Antioksidan, Kadar Fenolat Total dan likopen pada Buah Tomat (*Solanum lycopersicum* L), *Jurnal Sains dan Teknologi*, Vol 13 (1).
- Rohman, A, 2009. *Kromatografi Untuk Analisis Obat*. Graha Ilmu.
- Rohman, A, 2014. *Spektroskopi Inframerah dan Kemometrika untuk Analisis Farmasi*, Pustaka Pelajar, Yogyakarta.
- Santoni, A., 2009. Ekusidasi Struktur Senyawa Metabolit Sekunder Kulit Batang Surian (*Toona sinensis*) Meliaceae dan Uji Aktivitas Insektisida. Program Pasca Sarjana Universitas Andalas, Padang.

- Saralamp, P., Chuakul, W., Temsirirkkul, R., & Clayton, T., 1996. Medicinal Plants in Thailand (vol I), Bangkok. *departement Of Pharmaceutical Botany, Mahidol University*, 49.
- Sari,N.P.K., 2015. Daya Tangkap Senyawa Tetrahidroheksagamavunon-5(THHGV-5), Tetrahidroheksagamavunon-7(THHGV-7) dan 1,5-Bis-(4'-triflorometilfenil)-pentan-3-on (THC7) Terhadap radikal 2,2-Difenil-1-Pikrilhidrazil dan Daya reduksinya terhadap ion Ferri. Skripsi. Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Sari, P.O., dan Taufiqurrohmah, T., 2006. Isolasi dan Identifikasi Senyawa Flavanoid Fraksi Etil asetat Rimpang Tumbuhan Temu Kunci (*Boesenbergia pandurata* (Roxb) Schelecht) (Zingiberaceae)
- Sastrohamidjojo,H, 1991. *Kromatografi*, I. ed. Liberty Yogyakarta, yogyakarta.
- Sastroharmidjojo, H., 2007. *Kromatografi, Kedua*, 4th ed. Liberty Yogyakarta.
- Seniya, C., Mishra, H., Yadav, A., Sagar, N., Chaturvedi, B., Uchadia, K., dkk., 2013. Antiviral potential of 4-hydroxypanduratin A, secondary metabolite of Fingerroot, *Boesenbergia pandurata* (Schult.), towards Japanese Encephalitis virus NS2B/NS3 protease. *Bioinformation*, **9**: 54–60.
- Shindo, K., Kato, M., Kinoshita, A., Kobayashi, A., dan Koike, Y., 2006. Analysis of antioxidant activities contained in the *Boesenbergia pandurata* Schult. Rhizome. *Bioscience, Biotechnology, and Biochemistry*, **70**: 2281–2284.
- Sibuea P, Raharjo S, Santoso U, Noor Z, 2005. Mechanisms and Kinetics of Quenching of Quersetin on the Photosensitizing Effect of Syntetic Fod Colorant Erythrosine in Palm Oil Oxidation. *Jurnal Teknologi dan Industri Pangan*, Vol XVI :2.
- Silverstein,R.M., and Webster, F.X., 1998. *Spectrometric Identification of Organic Compounds*, 6th Ed., John Wiley & Sons Inc., New York.
- Sirait M, 2007. *Penuntun Fitokimia Dalam Farmasi*. ITB, Bandung.

- Smolarz,D.H., et all (2006). Pinostrobin-an AntipLeukiemic Flavanoid from *Polygonum lapathifolium* L sp. *nodosum* (Pers.) Dans. Verlag der Zeitschrift fur Naturforschung, Tubingen.
- Stahl, 1985. *Analisis Obat Secara Kromatografi Dan Mikroskopi, 1-19, Diterjemahkan Oleh Padmawinata K Dan Sudiro., I. ed.* ITB, Bandung.
- Sudarsono, Didik Gunawan, Wahyuono,S, Ignasius A Donatus, dan Purnomo, 2002. *Tumbuhan Obat II Hasil Penelitian Sifat-Sifat Dan Penggunaan.* Pusat Studi Obat Tradisional UGM, Yogyakarta.
- Sunarsih A, 1999. 'Aktivitas antioksidan ekstrak temulawak (*Curcuma xanthorrhiza*), Temu Giring (*Curcuma heynena*), Temu kunci (*Kaempferia pandurata*) dan Temu Ireng (*Curcuma aeruginosa*) pada minyak ikan', , *skripsi.* , Universitas Gadjah Mada, Yogyakarta.
- Suryohudoyo, P., 1993, Oksidan, Antioksidan, dan Radikal Bebas, *Laboratorium Biokimia Fakultas Kedokteran Unair*, 1-11.
- Suyatno, dkk. 2012. Metabolit Sekunder dari Tumbuhan Paku *Nephrolepis radicans* (Burm.)Kuhn. Jurusan Kimia FMIPA Universitas Negeri Surabaya.
- Syahbana D dan Bahalwan R.R, 2002. 'seri referensi herbal : pesona tradisional dan Ilmiah Buah Mengkudu (*Morinda citrifolia* L)', . *Salemba*, .
- Syamsuhidayat , S.S dan Hutapea, J.R, 1991. *Inventarisasi Tanaman Obat Indonesia I.* depkes RI, Jakarta.
- Tamat, S. R., T. Wikanta dan L. S. Maulina., 2007. Aktivitas Antioksidan dan Toksisitas Senyawa Bioaktif dari Ekstrak Rumput Laut Hijau *Ulva reticulata* Forsskal. *Jurnal Ilmu Kefarmasian Indonesia*, **5**: 31–36.
- Tanjung, M., Tjahjandarie, T.S., dan Sentosa, M.H., 2013. Antioxidant and cytotoxic agent from the rhizomes of *Kaempferia pandurata*. *Asian Pacific Journal of Tropical Disease*, **3**: 401–404.
- Terrence Madhujith dan Fereidoon Shahidi, 2006. antioxidant Potential of Pea Beans (*Phaseolus vulgaris* L). *journal of Food Science*, **70**: S85–S90.

- Terry, L.A., Vicente, A., & Cools, K., 2011. methodologies for Extraction, Isolation, Characterization and Quantification of Bioactive Compounds, Health-Promoting Properties of Fruits and Vegetables,. *CAB international*, 375–376.
- Tewtrakul Supinya, Sanan Subhadhirasakul, Chatchanok Karalai, Chanita Ponglimanont, dan Sarot Cheenpracha, 2009. anti inflamamatory effects of compounds from *kaempferia pasviflora* and *Boesenbergia pandurata*. *food chemistry*, **115**: 534–538.
- Tewtrakul Supinya, Sanan Subhadhirasakul, Jindaporn Puripattanavong, dan Tassanee Panphadung, 2003. HIV-1 protease inhibitory substances from the rhizomes of *Boesenbergia pandurata* Holtt. *Songklanakar J. Sci. Technol*, **25**: 503–508.
- Tuchinda, p, Reutrakul V, Claeson P, Pongprayoon U, Sematong T, Santisuk T, dkk., 2002. anti-infammotory cyclohexenyl chalcone derivatives in *Boesenbergia pandurata*., *phytochemistry*, **59**: 169–173.
- Utami W, Dai M, dan Sofiana YR, 2005. Aktivitas Penangkap Radikal dengan metode DPPH serta penetapan kandunngan fenol dan flavanoid dalam ekstrak kloroform, ekstrak etil asetat, ekstrak etanol daun dewandaru (*Eugenia uniflora* L). *pharmakon*, **6**: 5–9.
- Vogel, 1985, *Buku Teks Analisa Anorganik Kualitatif Makro dan Semimikro*, diterjemahkan oleh Setiono L., Pudjaatmaka A.H., Edisi Kleima, PT. Kalman Media Pustaka, Jakarta.
- Waris, R., 2015. Efek Sitoprotektif dan Antioksidan dari Ekstrak Etanolik Buah Jambu Biji Merah (*Psidium guajava* L) dan Tomat (*Lycopersicon lycopersicum* L. Karsten), Tesis. Universitas Gadjah Mada, Yogyakarta.
- Watson, David G, Analisis Farmasi: Buku Ajar untuk Mahasiswa Farmasi dan Praktisi Kimia Farmasi, Edisi 2, EGC, Jakarta.
- Winarsi, H, 2007, Antioksidan alami dan Radikal Bebas, Penerbit Kanisius, Yogyakarta, 77-81.

Windy, S., 2009. Buku Ajar Untuk Mahasiswa Farmasi Dan Praktisi Kimia Farmasi, 2nd ed. Penerbit Buku Kedokteran RGC, Jakarta.

Yun.J.Kweon, M. Kwon, H., Hwang, J, and Mukhtar .H., 2006. Induction of Apoptosis and Cell Cycle Arrest by A Chalcone panduratin A isolated from *Kaempheria pandurata* in Adrogen-independent Human Prostate cancer Cells PC3 and DM 146, *Carcinogenesis* 27(7), 1454-1464.

Zaeoung, S, Plubrukarn, A., dan Keawpradub, N., 2004. Cytotoxic and free radical scavenging activities of Zingiberaceous rhizomes. *Prince of Songkla University, Thailand.*, 799–812.