

DAFTAR PUSTAKA

- Aebi, H.E. 1984. Catalase In Vitro. Dalam : *Methods Enzymi*. 105:121-126.
- Amos., Zainuddin, I., Triputranto, A., Rusmandana, B., Ngudiwaluyo, S. 2004. *Teknologi Pasca Panen Gambir*. BBPT Press . Jakarta : 5-26.
- Andarwulan N, Wijaya H, Cahyono DT. 1996. *Aktivitas Antioksidan dari Daun Sirih (Piper betle L)*. Teknologi dan Industri Pangan. Hal 29-30.
- Anief, M. 2000. *Ilmu Meracik Obat Teori dan Praktek*. Gajah Mada University Press. Yogyakarta.
- Anita, S. 2009. Studi Sifat Fisiko-Kimia, Sifat Fungsional Karbohidrat, dan Aktivitas Antioksidan Tepung Kecambah Kacang Komak (Lablab purpureus (L.) sweet). Skripsi. Fakultas Teknologi Pertanian. IPB. Bogor.
- Apak. et al. 2007. Comparative Evaluation of Various Total Antioxidant Capacity Assay Applied to Phenolic Compounds with the CUPRAC Assay. *Molecules*. 12:1496-1547.
- Belleville-Nabet, F. 1996. *Zat Gizi Antioksidan Penangkalan Senyawa Radikal Pangan dalam Sistem Biologis*. Dalam : *Prosiding Seminar Senyawa Radikal dan Sistem Pangan. Reaksi Biomolekuler, Dampak terhadap Kesehatan dan Penangkalan*. CFNS-IPB dan Kedutaan Besar Prancis-Jakarta.
- Bintang, M. 2010. *Biokimia teknik penelitian*. Erlangga. Jakarta.
- Bonni, TY., dan Choo Y.M. 2000. Valuable Minor Constituents of Commercial Red Palm Olein : Carotenoids, Vitamin E, Ubiquinones and Sterols. *J Oil Palm Resarch*. 12: 14-24.
- Brand-Williams, W., Cuvelier, M., and Berset, C. 1995. Use of a Free Radical Method to Evaluate Antioxidant Activity. *Lebensmittel-Wissenschaft- und-Technologie*. 28:25-30.
- Chaiyasit, W., McClements, J., Decker , EA. 2005. *The Relationship Between the Physicochemical Properties of Antioxidants and Their Ability to Inhibit Lipid Oxidation in Bulk Oil and Oil-in-Water Emulsions*. Departement of Food Science, University of Massachusetts Amherst.

- Chan, E.W.C., Lim, Y.Y., Wang, S.K., Lim, K.K., Tan, S.P., Lianto, F.S. 2009. Effect of Different Drying Methods on the Antioxidant Properties of Leaves and Tea of Ginger Species. *Food Chemistry*. 113(1):166-172.
- Dalimartha, S. dan Soedibyo, M. 1999. Awet Muda Dengan Tumbuhan Obat dan Diet Suplemen. *Trubus Agriwidya*. Jakarta: 36-40.
- Decker, E.A., Warner, K., Richards, M.P., Shahidi, F. 2005. Measuring Antioxidant Effectiveess in Food. *Journal of Agricultural and Food Chemistry*. 53: 4303-4310.
- Demple, B dan L. Harrison. 1994. *Annual Review Biochemistry*. 63: 915-948.
- Departemen Pertanian. 2006. *Eksport Komoditi Perkebunan Tahun 2006 Menurut Negara Tujuan*.
- Duh, P.D. 1998. Antioxidant Activity of Burdock (*Arctium lappa* L.): Its scavenging Effect on Free Radiacal and Active Oxygen. *J. Am. Oil Chem. Soc.* 75: 455-461.
- Gordon, M.H. 1990. *The Mechanism of Antioxidants Action in Vitro*. Dalam *B.J.F. Hudson, editor*. Food Antioxidants. Elsevier Applied Science, London.
- Gordon, M.H. 2001. *Measuring Antioxidant Activity*. Dalam: Jan Pokorny, Nedyalka, Yanishlieva-Malarova, and Michael Gordon (ed.). *Antioxidant in Food Practical Application*. Woodhead Publishing Ltd. London.
- Goutara, W Ciptadi, B Djatmiko, TA Wahab. 1980. *Mempelajari Pembuatan Minyak Kelapa dengan Cara Ekstraksi Basah serta Pemakaian Antioksidan pada Kelapa Santan*. [laporan penelitian]. Proyek Peningkatan/Pengembangan Perguruan Tinggi. Bogor: Departemen Teknologi HasilPertanian, Institut Pertanian Bogor.
- Guenther, E. 2006. *Minyak Atsiri*. UI Press. Jakarta.
- Hadad, EA dkk. 2007. *Teknologi Budidaya dan Pengolahan Hasil Gambir*. Balai Penelitian Tanaman Rempah dan Aneka Tanaman Industri. Balai Besar Penelitian dan Pengkajian Teknologi Pertanian.
- Harborne, JB. 1987. *Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan*. Penerbit ITB. Bandung.
- Hardjono, S. 2011. *Kimia Organik Dasar*. Gadjah Mada University Press. Yogyakarta.

- Hayani, E. 2003. Analisis Kadar Catechin dari Gambir dengan Berbagai Metode. *Buletin Teknik Pertanian Vol. 8 Nomor 1.*
- Hostettmann, K., Wolfender, J.L., Rodriguez, S. 1997. Rapid Detection and Subsequent Isolation of Bioactive Constituents of Crude Plant Extracts. *Planta Med (suppl.):*185-187.
- Huang, D., Ou, B., Prior, R. L. 1997. Partition of Selected Antioxidants in Corn Oil-Water Model System. *J. Agric. Food Chem.* Vol 45:1991-1994.
- Huang C et al. 2005. Identification of an Antifungal Chitinase from a Potential Biocontrol Agent, *Bacillus cereus*. *Journal of Biochemistry and molecular Biology*, 38 : 82-88.
- Kahkonen MP, Hopia AL, Vuorela HJ, Rauha JP, Pihlajak, Kujala TS. Heinonen M. 1999. Antioxidant Activity of Extract Containing Phenolic Compounds. *J Agric Food Chem.* (47): 3954-62.
- Ketaren, S,. 2005. *Pengantar Teknologi Dan Lemak Pangan*. Jakarta : Penerbit UI-Press, 174, 69, 113.
- Khopkar, SM. 2007. *Konsep Dasar Kimia Analitik*. Penerjemah: Saptorahardjo, A. *Terjemahan dari Basic Concepts of Analytical Chemistry*. Jakarta: UI Press.
- Kumalaningsih, S. 2006. *Antioksidan Alami-Penangkal Radikal Bebas, Sumber, Manfaat, Cara Penyediaan dan Pengolahan*. Surabaya: Trubus Agrisarana.
- Lai, L-S.. Chou, S-T dan Chao, W-W. 2001. Studies on the antioxidative Activities of Hsian-tsao (Mesona Procumbens Hemsl) Leaf Gum. *J. Agric. Food Chem.* 49: 963-968.
- Lampe, JW. 1999. Health Effect of Vegetables and Fruit Assesing Mechanism Of Action In Human Experimental Studies. Dalam: *The American Journal Of Clinical Nutrition*, 70 Suppl :475 S- 490 S.
- Lucida, H., A., Bakhtiar, WA., Putri. 2007. Formulasi Sediaan Antiseptik Mulut dari Katekin Gambir. *Jurnal Sains Tek. Farmasi FMIPA*. Universitas Andalas. Padang.
- Madhavi, D.L., dkk. 1996. *Food Antioxidants*. Marcell Dekker Inc. New York.

- Manthey, J. A. 2004. Fractionation of Orange Peel Phenols In Ultrafiltered Molasses And Mass Balance Studies of Their Antioxidant Levels. *Journal of Agricultural and Food Chemistry*. 52 :7586-7592.
- Marxen, K. Vanselow K.H., Lippemeier S., Hintze R., Ruser A. dan Hansen U.P. 2007. Determination of DPPH Radical Oxidation Caused by Methanolic Extracts of Some Microalgal Species by Linear Regression Analysis of Spectrophotometric Measurements. *Sensors* 7: 2080-2095.
- McCord, JM. 1979. *Superoxide, Superoxide Dismutase and Oxygene Toxicity*. Dalam: *Reviews in Biochemical Toxicology*. E. Hodgson, J.R. Bend, R.M. Philpot (Eds). Elsevier Amsterdan, The Netherland: 109-124.
- Molyneux, P. 2004. The Use of The Stable Free Radical Diphenylpicrylhydrazyl (DPPH), For Estimating Antioxidant Activity. *Songklanakarin J. Sci. Technol.* 26 (2): 211-219.
- Moon, JK., Shibamoto, T. 2009. Antioxidant Assays for Plant and Food Components. *Journal of Agricultural and Food Chemistry*. 57: 1655-1666.
- Muchtar, dkk. 2008. Pengaruh Jenis Absorban dalam Proses Isolasi Katechin Gambir. *Jurnal Riset Industri*. Vol 2 No 1.
- Naik, G.H., Priyadarsini, K.I., Satav, J.G., Banavalikar, M.M., Sohoni, D.P., Biyani, M.K., and Mohan H. 2003. Comparative antioxidant activity of individual herbal components used in ayurvedic medicine, *Phytochemistry*. 63 (1): 97-104
- Natsume, M. dkk. 2000. Analysis of Polyphenols in Cacao Liquor, Cocoa and Chocolate by Normal-phase and Reserved-phase HPLC. Biosci.Bi
- Pambayun, R., Gardjito, M., Sudarmadji, S., Kuswanto, RK. 2007. Kandungan Fenol dan Sifat Anti Bakteri dari Berbagai Jenis Ekstrak Produk Gambir (Uncaria Gambir Roxb). *Majalah Farmasi Indonesia*. 18 (3), 141-146.
- Perry, J.. H PhD. 1984. *Chemical Engeenering Handbook* (6th Edition) McGraw Hill Company, New York.
- Pokorny, J., N. Yanishleva, and M. Gordon. 2001. *Antioxidant in Food*. Woodhead Publishing Ltd. England
- Prakash, A., dkk. 2001. *Medallion Laboratories : Analytical Progress, Antioxidant Activity*. Diakses 22 Januari 2013. www.medlabs.com/downloads/antiox_acti .pdf

- Pratt, D.E. dan Hudson, B.J.F. 1990. *Natural Antioxidant not Exploited Commercially*. Didalam: B.J.F. Hudson (ed.). *Food Antioxidants*. Elsevier Applied Science. London.
- Rauf, R., Purwani, E., Widyaningsih, N.E. 2011. Kadar Fenolik dan Aktivitas Penangkapan Radikal DPPH Berbagai Jenis Ekstrak Jahe (*Zingiber Officinale*). *Jurnal Teknologi Hasil Pertanian*. Vol.IV, No. 2.
- Rauf, R., Santoso, U., Suparmo. 2010. Aktivitas Penangkapan Radikal DPPH Ekstraak Gambir (*Uncaria gambir Roxb.*). *Agritech*, Vol.30, No 1.
- Redaksi Agromedia. 2008. *Buku Pintar Tanaman obat*. PT Agromedia Pustaka. Jakarta.
- Risfaheri, Emmyzar, H., Muhammad. 1993. *Budidaya dan Pascapanen Gambir. Pusat Penelitian dan Pengembangan Industri*. Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian. Jakarta.
- Rohman , A dan Riyanto, S. 2005. Daya Antioksidan Ekstrak Etanol Daun Kemuning (*Murraya Paniculata* (L) Jack) Secara Invitro. *Majalah Farmasi Indonesia*. 16 (3): 136-140.
- Sediawan, W. B. 2000. *Berbagai Teknologi Proses Pemisahan II*. Prosding Presentasi Ilmiah Daur Bahan Bakar Nuklir. Vol.5 : 10-11.
- Shahidi, F., dan Wanasundara, U.N. 2002. *Methods For Measuring Oxidative Rancidity in Fats and Oils*. Dalam Akoh, C.C., dan Min, D.B. (ed.). *Food Lipids Chemistry, Nutrition, and Biotechnology* (2nd ed.) Marcel Dekker, Inc. New York.
- Sakakibara, H., Honda, Y., Nakagawa S., Ashida, H. dan Kanazawa, K. 2003. Simultaneous Determination of All Polyphenols in Vegetables, Fruits, and Teas. *J. Agric. Food Chem.* 51: 571-581.
- Setiyowati, V. 2007. *Karakterisasi dan Pengujian Aktivitas Antioksidan Tabelt Effervescent Ekstrak Teh Hijau Pada Lama Ekstraksi dan Jenis Bahan Pengisi yang Berbeda*. Skripsi Mahasiswa Jurusan Teknologi Hasil Pertanian, Fakultas Teknologi Pertanian. Universitas Brawijaya.
- Sharma, OP., dan Bhat, TK. 2009., *Analytical methods dpph antioxidant assay revisited*. Food Chemistry. 113: 1202–1205.
- Smallwood, IM. 1999. *Solvent Recovery Handbook* (2nd ed).CRC Press. Canada.

- Suhartono, E., Fujiati, Aflanie, I. 2002. *Oxygen Toxicity by Radiation and Effect of Glutamic Piruvat Transamine (GPT) Activity Rat Plasma after Vitamine C Treatmen*. Diajukan pada Internatinal seminar on Environmental Chemistry and Toxicology. Yogyakarta.
- Sunarni, T. 2005. Aktivitas Antioksidan Penangkap Radikal Bebas Beberapa kecambah Dari Biji Tanaman Familia Papilionaceae. *Jurnal Farmasi Indonesia*. 2 (2), 2001: 53-61.
- Tahir, I., Wijaya, K., Widianingsih, D. 2003. *Terapan Analisis Hansch Untuk Aktivitas Antioksidan senyawa Turunan Flavon/Flavonol*, Seminar on Chemometrics- Chemistry Dept Gadjah Mada University. 25 Januari.
- Urisini, F., et al. 1995. *Diversity of Glutathione Peroxidases*. Dalam: Methods Enzymol. 252: 38-114.
- Vermerris, W., Nicholson, R. 2006. Phenolic Compound Biochemistry. USA: Springer. Nueva york, EEUU. pp. 3-16, 151-153.
- Voigt, R. 1995. *Buku Pelajaran Teknologi Farmasi*. Alih bahasa : S.N. Soewandhi. 5nd ed. Gadjah Mada University Press. Yogyakarta :564.
- Wang, R dan Zhou, W. 2004. Stability of Tea Catachin in Bread Making Process. *Journal Agricultural Food Chemistry*. 52: 8224-8229
- Winarsi, H. 2007. *Antioksidan Alami Dan Radikal Bebas, Potensi Dan Aplikasinya Dalam Kesehatan*.
- Wright, M., R. 2004. *An Introdustions of Chemical Kinetics*. Chishester. John Wile & Stones. Ltd.