DAFTAR PUSTAKA

[Anonim]. 2006. Pelapis yang Dapat Dimakan. www.halalguide.info. Diakses 20 Mei 2018.

Anisa Arga Safitri. 2012. Studi Pembuatan *Fruit Leather* Mangga Rosella. Fakultas Pertanian. Universitas Hasanuddin. Makassar.

AOAC. 2000. Official Methods of Analy sis of AOAC International, Gaitherburg, USA.

Apandi, Muchidin. 1984. **Teknologi Buah dan Sayur**. Penerbit Alumni.

Baldwin, E. A. 1999. Edible Coatings for Fresh Fruits and Vegetables : Past, Present, and Future. Lancaster. Technomic Publ. Co. Inc.

Baldwin, E.A. 2007. Surface Treatments and Edible Coatings in Food Preservation. Di dalam : Rahman, M. S. (Ed), Handbook of Food Preservation, 2nd Ed. CRC Press, New York, p. 477-507

Biale, J. BEM dan Young, R. E. 1971. The Avocado pear. Di dalam Hulme, A.C. 1971. The Biochemistry of Fruit and Their Produce. Vol 2. Academic Press, London.

Buckle, K .A, R.A Edwards, G.H. Fleet dan M. Wooton. 1987. *Ilmu Pangan*. Universitas Indonesia Press. Jakarta

Burn JK. 1995. Lightly Processed Fruits and Vegetables. Introduction to the Colloqium. J. Hort. Sci. 30 (1): 14-17.

Cahyadi, Wisnu. 2006. Analisis & Aspek Kesehatan Bahan Tambahan Pangan. Bumi Aksara: Jakarta.

Catur Wulandari. 2016. Pengaruh Asam Sitrat Terhadap Indeks Browning, Kandungan Karbohidrat Terlarut Total, dan Aktivitas Enzim Dehidrogenase pada Buah Pir Yali (Pyrus bretschneideri Rehd.). Bandar Lampung: FMIPA, UNIVERSITAS LAMPUNG.

Chun, O. K., D. O. Kim and C. Y. Lee. 2003. Superoxide radical scavenging activity of the major polyphenols in fresh plums. J. Agric. Food Chem. 51: 8067-8072.

Cheng GW, Crisosto CG. 2005: Browning potential, phenolic composition, and polyphenoloxidase activity of buffer extracts of peach and nectarine skin tissue. J. Amer. Soc. Horts. Sct. 120 (5):835-838

Cortez-Vega, W. R., Becerra-Prado, A. M., Soares, J. M., and Fonscca, G. G. 2008. Effect of L-ascorbic acid and sodium metabisulfite in the inhibition of the enzymatic browning of minimally processed apple, International Journal of Agricultural Research, 3 (3), 196-201.

Coseteng, M.Y. and C.Y. Lee. (1987). Changes in apple polyphenoloxidase and polyphenol con- centrations in relation to degree of browning. J. Food Sci. 52:985–989**.**

Davidson P. M. dan Juneja, V.K., 1990. Antimicrobial Agents. Dalam "Food Additives". Branen, A.L., Davidson, P.M., dan Salminen, S. (Eds). Pp 83-137.

Direktorat Jenderal Hortikultura. 2015. Statistik Produksi Hortikultura Tahun 2014. Jakarta.

Durand, B. 1990. Les achats des menageres de produits de 4e gamme. Infos- CTIFL 65: 42-45. Di dalam Chervin C dan P Boisseau. 1996. Journal of Food Science. 58: 399-402

Ernawati, 2012.Pengaruh Suhu Dan Lama Perendaman Blansir Terhadap Mutu Selada Kepala (*Lactuca sativa L*)Terolah Minimal Selama Penyimpanan. Fakultas Teknologi Pertanian.Institut Pertanian Bogor. Bogor.

Fardiaz, S., 1992. Mikrobiologi Pangan I. Gramedia Pustaka Utama, Jakarta.

Fessenden, R.J. and J.S. Fessenden. 1986. Kimia Organik Dasar Edisi Ketiga Jilid 1. Terjemahan oleh A.H. Pudjaatmaka. Erlangga. Jakarta.

Fitrianti, J. 2006. Kajian Teknik Penyimpanan dan Pengemasan Jambu Biji (*Psidium guajava* L.) dalam Kemasan Transportasi. IPB. (Skripsi)

Flicks G.J. Ory, J.A. St. Angelo. 1977. Comparison of nutrient composition and of enzyme activity in purple, green and white eggplant. Journal of Agricultural and Food Chemistry, 25 : 117 – 120.

Garcia, E. and D.M. Barrett, O. 2002. Preservative treatment for fresh-cut fruit and vegetables. *in*. O. Lamikanra. Ed. Fresh-Cut Fruits and Vegetables. Science, Technology and Market. CRC Press. New York, NY, USA.

Gardjito, M., Adnan, M., dan Trenggono. 2006. Etilen luka, aktivitas enzim peroksidase, polifenol oksidase, dan fenil alanin liase pada irisan mesokarp labu kuning, Agritech, 26 (1), 14–23.

Hansche, P.E. and B. Boynton. (1986). Heritability of enzymatic browning in peaches. HortScience 21:1195–1197.

Hanson, K.R. and E.A. Havir. (1979). An introduction to the enzymology of phenylpropanoid biosynthesis, p. 91–138. In: T. Swain, J.B. Harbone, and C.F. Sumere (eds.). The biochemistry of plant phenolics. Plenum Press, New York.

Harborne, J.B. 1996. *Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan*, Diterjemahkan oleh Kosasih Padmawinata dan Imam Sudiro, Edisi II, Hal 4-7 : 69-76, ITB. Bandung.

Hasanah U. 2009. Pemanfaatan gel lidah buaya sebagai edible coating untuk memperpanjang umur simpan [skripsi]. Bogor (ID): Institut Pertanian Bogor

Hasbullah, R. 2006. Teknologi Pengolahan Minimal. Food Review 1 (10) : 40-45.

Holzwarth, M., Wittig, J., Carle, R., and Kammerer, D. R. 2013. Influence of putative polyphenoloxidase (PPO) inhibitors on strawberry (Fragaria x ananassa Duch.) PPO, anthocyanin and color stability of stored purées, LWT - Food Science and Technology, 52, 116-122.

Huxsoll, C.C. and H.R. Bolin. 1989. Processing and distribution alternatives for minimally processed fruits and vegetables. J. Food Technol. 51 (2): 124-128.

Ioannou, I. dan Ghoul, M. (2013). Prevention of enzymatic browning in fruit and vegetables. European Scientific Journal edition vol.9, No.30 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431.

Jennylynd B. J. and Tipvanna Ngarmsak. 2010. *Processing of Fresh-cut tropical fruits and vegetables: A technical guide.* Food and Agriculture Organization of the United Nations. Bangkok. 26h.

Jiang Y. (2004). Advances in understanding of enzymatic browning in harvested litchi fruit. Food Chemistry 88: 443–446.

Jeong, H.L., Jin, W.J., Kwang, D.M., Kee, J.P. 2008. Effects of Anti-Browning Agents on Polyphenoloxidase Activity and Total Phenolics as Related to Browning of Fresh-Cut 'Fuji' Apple. ASEAN Food Journal 15 (1): 79-87.

Joslyn, M. A., and J. B. S. Braverman. 1954. The chemistry and technology of the pretreatment and preservation of fruit and vegetable products with SO, and sulfites. Advances ifs Food Research 5, 97.

Karadeniz, F., Burdurlu, H.S., Koca, N., Soyer, Y., 2005, Antioxidant Activity Of Selected Fruits And Vegatables Grown In Turkey, Turk. J. Agric For.,29,297-303.

Kaviya, R.,and Tsuchiya. 2012. Comparative studies on the inhibitor of banana peel polyphenol oxidase (PPO). Departement of Biotechlogopy, Karamaguru College of Technology. Coimbatore.

Kavya, R. 2012. Comparative studies on the inhibitors of banana peel polyphenol oxidase (PPO). Departement of Biotechlogopy, Kumaraguru College of Technology. Coimbatore.

Kays, S. 1991. Postharvest Physiology of Perishable Plant Product. New York. AVI Book.

Khadambi.2007. *Extraction of Phenolic Compound and Quantification of the Total Phenol and Condensed Tannin Content of Brand Fraction of Condensed Tannin an Condensed Tannin Free Sorghum Varieties.* http:/upetd.up.ac.za/thesis. 24 Februari 2018.

Khoirul Mukhtarom, 2015. Perlakuan Air Panas Diikuti Pencelupan Dalam Larutan $CaCl_2$ Untuk Mempertahankan Kualitas Belimbing Manis. http://docplayer.info/68461757-Perlakuan-air-panas-diikuti-pencelupan-dalam-larutan-cacl2-untuk-mempertahankan-kualitas-belimbing-manis-averrhoa-carambola-l-khoirul-mukhtarom.html. Diakses tanggal 6 Juni 2018.

Krochta *et al.,* 1994) Krochta, J, M,, A,B, Elisabeth, O,N,C, Myrna, 1994,*Edible Coating and Film to Improve Food Quality, Technomic Publ, Co, Inc, Pensylvania, USA.*

Kuczinsky, A., Varoquaux, P., Varoquaux, F. 1992. Reflectometric method to measure the initial colour and the browning rate of white peach pulps. Science Aliment 12: 213.

Kusnandar, Feri. 2010. Kimia pangan. Komponen Pangan. PT. Dian Rakyat. Jakarta.

Kusumo, S. 1986. Apel (*Malus sylvestris Mill*). CV. Yasaguna, Jakarta.

Lambrecht, H. S. 2014. Sulfite Substitutes for the Prevention of Enzymatic Browning in Foods. American Chemical Society. Washington, DC. Chapter 24.

Laurila E, Ahvenainen R. 2002. Minimal processing in practice: fresh fruits and vegetables. In Minimal Processing Technologies In The Food Industry. Ohlsson T, Bengtsson N. Woodhead Publishing Limited, Cambrige, England

Latifah, Tita S. 2000. Skripsi : Pengaruh Umur Panen dan Periode Simpan Terhadap Kualitas Buah Jeruk Besar (*Citrus grandis L. Osbeck*). Jurusan Budi Daya Pertanian. Fakultas Pertanian. Institut Pertanian Bogor. Bogor.

Latifa, 2009. Pengaruh Bahan Aditif Cmc (*Carboxyl Methyl Cellulose*) Terhadap Beberapa Parameter Pada Larutan Sukrosa. http://lib.itenas.ac.id/kti/wp-content/uploads/2014/04/JURNAL-Netty-Kamal-ED-17.pdf. Diakses pada 20 november 2018.

Lichaporn, I., Srilanong, V., Wongs-Aree, C. and Kanlayanarat, S. (2009). Postharvest physiology and browning of longkong (*Aglaia dookkoo* Griff.) fruit under ambient conditions. Postharvest Biology and Technology 52: 294-299.

Margono, T.,Suryati D., dan Hartinah S.. 1993. Teknologi pangan. PDII-LIPI. Jakarta.

Marshall, M.R., Kim, J., dan Wei, C-I. 2000. *Enzymatic Browning in Fruits, Vegetables, and Seafoods. www.fao.org* . Diakses tanggal 20 Maret 2018. Minimally processed ‘jonagored’ Apples (*Malus domestica).Journal of Food Processing and Preservation*. 29 (1) : 8-19.

Mason, H.L. 1959. Structure of melanin. In: Pigment cell biology. M. Gordon, ed. Academic Press, New York.

Mathew A.G, H. Parpia. 1971. Food browning as a polyphenol reaction. Journal Advances in Food Research. 19.

Muchtadi, D. 1992. Fisiologi Pascapanen Sayuran dan Buah-buahan [Petunjuk Praktikum]. IPB. Bogor.

Muchtadi, T. R. & Sugiyono. (1992). Ilmu Pengetahuan Bahan Pangan. Bogor: Institut Pertanian Bogor.

Muhandri, Kadarisman. 2006. Sistem Jaminan Mutu Industri Pangan . Bandung : IPB Press

Murdijati Garjito dan Yuliana Reni Swasti . 2014. Fisiologi Pascapanen Buah dan Sayur. Gadjah Mada University Press. Yogyakarta. Hal: 7- 167.

Naadie Khumairo'. 2014. Pengaruh Konsentrasi Natrium Metabisulfit dan Lama Perendaman Terhadap Sifat Fisika-Kimia Tepung Pisang Rayap. Jember.

Naning Septiyani Rahayu, 2012. ILMU TEKNOLOGI PANGAN BAHAN TAMBAHAN MAKANAN NATRIUM METABISULFIT. http://naning-septiyani.blogspot.com/2012/06/ilmuteknologi-pangan-bahantambahan.html. Diakses 25 Mei 2018.

Nguyen-the C, Carlin F (1994) *The Microbiology of Minimally Processed Fresh Fruits and Vegetables. Crit Rev Food Sci Nutr* 34: 371-401.

Novian Wely Asmoro. 2017. PENGARUH BLANCHING NATRIUM METABISULFIT (Na2S2O5) TERHADAP SIFAT FISIK DAN ORGANOLEPTIK MANISAN KERING BUAH SEMU JAMBU METE (*Anacardium occidentale L*). Jurnal Ilmiah Teknosains, Vol. 3 No. 1 Mei 2017

Novita, M., Satriana, Martunis, Rohaya, S. dan Hasmarita, E. 2010. Pengaruh pelapisan kitosan terhadap sifat fisik dan kimia tomat segar (*Lycopersicum pyriforme*) pada berbagai tiingkat kematanggan. Jurnal Teknologi dan Industri Pertanian. 4(3) : 1-8.

Pantastico R.B. 1993. Fisiologi Pascapanen : Penanganan dan Pemanfaatan Buah-buahan dan Sayur-sayuran Tropika dan Subtropika. Terjemahan Kamariyani.Gadjah Mada University Press. Yogyakarta.

Pardede, Erika. 2009. *Buah dan Sayur Olahan secara Minimalis.* Dalam jurnal Vol. 17 No. 3 Hal. 245 – 254.

Perera, 2007. Perera, C,O, 2007,*Minimal Processing of Fruits and Vegetables,Di dalam* : Rahman, M, S, (Ed), *Handbook of Food Preservation*, 2nd Ed, CRC Press, New York, p, 137-150.

Purwanto. CC., Dwi I., dan Dimas Rahadian. 2013. Kajian Sifat Fisik Dan Kimia Tepung Labu Kuning (*Cucurbita M.*) Dengan Perlakuan Blanching Dan

Perendaman Natrium Metabisul-fit (Na2S2O5). Jurnal Teknosains Pangan Vol 2 No 2 April 2013

Purwanto Hariyadi dan Nur Aini. 2015. Dasar-Dasar Penanganan Pasca Panen Buah dan Sayur. Penerbit Alfabeta. Bandung.

Queiroz, C., Lopes, M.L., Fialho, E and Valente- Mesquita, V.L. 2008. Polyphenol oxidase: characteristics and mechanisms of browning control. Food Review International 24: 361-375.

Rianto, N.K., Nawansih, O., & Erna, M. (2015). *Kajian penggunaan natrium bisulfit dalam pengawetan krim santan kelapa.*

Ribeiro, C., Vicente, A. A., Teixeira, J. A., & Miranda, C. (2007). Optimization of edible coating composition to retard strawberry fruit senescence. *Postharvest Biology and Technology*, 44(1), 63-70. doi:10.1016/j.postharvbio.2006.11.015

Rolle, R.S. and G.W. Chism, III. (1987). Physiological consequences of minimally processed fruits and vegetables. J. Food Qual. 10:157–177.

Ruangchakpet, A. and Sajjaanantakul, T. (2007). Effect of browning on total phenolic, avonoid content and antioxidant activity in Indian Gooseberry (*Phyllanthus emblica* Linn.). Kasetsart Journal (Natural Science) 41: 331-337.

Ryall, A. L. Dan W. A. Lipton. 1982. Handling, Transportation and Storage of Fruits and Vegetables. AVI Publishing Company Inc., Westport, Connecticut.

Saltveit, M.E. 2005. Fruit Ripening and Friut Quality. In Heuvenlik Ep (Ed). Tomatoes. CABI Publishing. Wageningen University. The Natherlands.

S.D. Silaban, Erma P., Endang S. 2013. Pengaruh Suhu dan Lama Penyimpanan Terhadap Kandungan Total Asam, Kadar Gula serta Kematangan Buah Terung Belanda. S. 55 – 63.

Shahidi, Fereidoon & Marian Naczk. 2004. *Phenolics in Food and Nutraceuticals.* CRC Press LLC. New York.

Siegbahn P.E.M. 2004. The catalytic cycle of catechol oxidase. J Biol Inorg Chem 9: 577–590

SNI. 1987. Syarat Mutu Bahan Tanaman. Jakarta.

Soelarso, B. 1996. Budidaya Apel. Yogyakarta: Kanisius.

Soelarso, B. (1997), Budidaya Apel. Kanisius, Yogyakarta.

Subashree, S.N., Sunoj, S., Zue, J., Bora. G.C., (2017). Quantification of browning in apples using colour and textural features by image analysis. Food Quality and Safety, 2017,1(3), 221-224.

Sunarjono, H. 2006. Berkebun 21 Jenis Tanaman Buah. Penebar Swadaya, Jakarta.

Supapvanich, S., Pimsaga, J. and Srisujan, P. (2011) Physiochemical changes in fresh-cut wax apple (*Syzygium samarangenese* Blume Merrill & L.M. Perry) during storage. Food Chemistry 127: 912-917.

Suprapti, Lies. 2004. Dasar – dasar Teknologi Pangan. Surabaya: Penerbit Vidi Ariesta.

Susanto, T. dan B. Saneto, 1994. Teknologi Pengolahan Hasil Pertanian. Bina Ilmu, Surabaya.

SUSENAS, BPS. 2014. Perkembangan Konsumsi Rumah Tangga per Kapita di Indonesia.www.bps.go.id. Diakses pada tanggal 2 April 2018.

Syamsir E, Taqi FM, Kusnandar F, Adawiyah DR, Suyatma NE, Herawati D, Hunaefi D, Budi FS, Muhandri T. 2011. *Penuntun Praktikum TeknologiPengolahan Pangan.* Bogor (ID): Departemen Ilmu dan Teknologi Pangan, Fakultas Teknologi Pertanian, Institut Pertanian Bogor.

Tan, T. C., Cheng, L. H., Bhat, R., Rusul, G., and Easa, A. M. (2015). *Effectiveness of ascorbic acid and sodium metabisulfite as anti-browning agent and antioxidant on green coconut water (Cocos nucifera) subjected to elevated thermal processin*g, International Food Research Journal,22 (2), 631-637.

Untung. 1994. *Apel: Jenis dan Budidayanya*. Jakarta: Penebar Swadaya.

Vaughn, K.C. and S.O. Duke. (1984). Function of polyphenol oxidase in higher plants. Physiol. Plant. 60:106–112

Vallverdu-Queralt, A., A. Medina-Remon, I. Casals-Ribes, dan R. M. Lamuela-Raventos. 2011. “Is There Any Difference Between The Phenolic of Organic and Conventional Tomato Juices?” *Journal of Food Chemistry* 130 : 222-227

Wardhani, D. (2016). *Natrium Metabisulfit sebagai Anti-Browning Agent pada Pencoklatan Enzimatik Rebung Ori*. Jurnal Aplikasi Teknologi Pangan, 5 (4) 2016.

Widiyowati, Iis Intan. 2007. Pengaruh Lama Perendaman Dan Kadar Natrium Metabisulfit Dalam Larutan Perendaman Pada Potongan Ubi Jalar Kuning (Ipomoea Batatas (L.)LAMB) Terhadap Kualitas Tepung Yang Dihasilkan. *Jurnal Teknologi Pertanian 2(2): 55-58, Maret 2007*.

Willes, 2000. Water Vapor Transmission Rates of Chitosan Film. Journal of Food Science. Vol 60 no 7.

Winarno, F. G. 1986. Kimia Pangan dan Gizi. Jakarta. Gramedia Pustaka Utama.

Winarno, F. G. 1997. Kimia Pangan dan Gizi. PT. Gramedia, Jakarta.

Winarno, F. G. dan M. Aman. 1981. Fisiologi Lepas Panen. Sastra Hudaya. Jakarta

Wirawan EY. 2016. Uji antioksidan ekstrak tumbuhan sisik naga (*Pyrrosia piloselloides* L. M.G Price) pada pohon inang jambu air (*Syzygium aqueum*) dengan metode 2,2- diphenyl-1-picrylhidrazyl (DPPH) dan penetapan karakter ekstrak. [*Skripsi*]. Yogyakarta(ID) : Fakultas Farmasi Universitas Sanata Dharma.

Wong, D.W.S., Camirand, W.M., dan Pavlath, A.E. 1994. Development of Edible Coatings for Minimally Processed Fruits and Vegetables. *Di dalam* : Krochta, J.M., Baldwin, E.A., dan Nisperos Carriedo, M.O. (Eds), Edible Coatings and Films to Improve Food Quality. Technomic Publishing Company Inc., Lancaster Pennsylvania, p. 65-8.

Wolfe, T.K. dan M.S. Kipps. 1993. Production of Field Crops. 5 ed. Mc Graw Hill Book Company.Inc. London.

Yohanes, A.P. 2016. Pengunaan Asam Askorbat dan Lidah Buaya untuk Menghambat Pencoklatan pada Buah Potong Apel Malang. Fakultas Teknologi Pertanian, IPB. Vol. 4 No. 2, p 203-210.

Yongki, A dan Nurlina. 2014. Aplikasi Edible Coating Dari Pektin jeruk Songhi Pontianak (Citrus Nobilis Var Microcarpa) Pada Penyimpanan Buah Tomat Fakultas MIPA, Universitas Tanjungpura, Vol. 3 No. 4.

Yuliana, T. 2013. Isolasi dan Pemurnian Wedelolakton dari Tumbuhan Urang Aring. Jurnal Kimia Terapan Indonesia. 15(1): 1-7.