



DAFTAR PUSTAKA

- 2000/36/EC D (2000, 23 June) Directive 2000/36/EC of the European parliament and of the council. *Official Journal of the European Communities*
- Afoakwa E O, Paterson A, Fowler M and Vieira J. 2009. Influence of tempering and fat crystallization behaviours on microstructural and melting properties in dark chocolate systems. *Food Res. Int.* 42 200–9
- Afoakwa, E. O. 2010. *Chocolate Science and Technology*. A John Wiley & Sons, Ltd., Publication, York UK.
- Afoakwa, E.O. 2016. *Chocolate Science and Technology: Second Edition*. United Kingdom: John Wiley & Sons Ltd.
- Afoakwa, E.O., Paterson, A., Fowler, M., Viera, J. 2008. Characterization of melting properties in dark chocolates from varying particle size distribution and composition using differential scanning calorimetry. *Food Research International* 41: 751–57.
- Afoakwa, E.O., Perterson, Alistair., Fowler, Mark., Vieira, Joselio. 2008. Particle size distribution and compositional effects on textural properties and appearance of dark chocolate. *Journal of Food Engineering* 87 181-190
- Ahmed Enas M, Aggor Fatma S, Awad Ahmed M, El-Aref Ahmed T. 2013. An innovative method for preparation of nano metal hydroxide super absorbent hydrogel. *Carbohydr Polym* 2013; 91:693–8 (14) (PDF) *Stabilitas Hidrogel dalam Penghantaran Obat*.
- Anjani, Puncak, P., Andrianti, S., Widyaningsih, T.D. 2015. Pengaruh Penambahan Pandan Wangi dan Kayu Manis Pada Teh Herbal Kulit Salak Bagi Penderita Diabetes. *Jurnal Pangandan Agroindustri*, 3 (1).
- Apriyanti, Ni Wayan Yeni. 2016. *Pengembangan Produk Minuman Coklat Kemasan Siap Saji dengan Pemanis Gula Kelapa Butiran*. Skripsi. Universitas Gadjah Mada. Yogyakarta
- Ardiyansyah dan Apriliyanti, M. 2016. Karakteristik Kimia Teh Kulit Melinjo. *Jurnal Ilmiah Inovasi*, 1 (2).
- Badan Pusat Statistik. 2020. *Statistik Kakao Indonesia*. BPS. Jakarta
- Badan Standardisasi Nasional. SNI 3747:2009. *Kakao Bubuk*. Badan Standardisasi Nasional Indonesia. Jakarta
- Badan Standardisasi Nasional. SNI 3748:2009. *Kakao Lemak*. Badan Standardisasi Nasional Indonesia. Jakarta
- Badan Standardisasi Nasional. SNI 3749:2009. *Kakao Massa*. Badan Standardisasi Nasional Indonesia. Jakarta
- Beckett, S.T. 2008. *The Science of Chocolate*. RSC Publishing, Cambridge, UK Vol 26
- Beckett, S.T. 2009. *Industrial Chocolate Manufacture and Use*. Blackwell Publishing, Oxford United Kingdom
- Beckett, Stephen T., Fowler, Mark S., Ziegler, Gregory R. 2017. *Beckett's Industrial Chocolate Manufacture and Use*. Wiley Blackwell, West Sussex United Kingdom



- Bolliger, S., Zeng, Y., & Windhab, E.J. 1999. In-line measurement of tempered cocoa butter and chocolates by means of near-infrared spectroscopy. *Journal of American Oil Chemist Society* 76 (6). 659-667
- BPOM (Badan Pengawas Obat dan Makanan). 2017. *Pedoman Cokelat*. Jakarta: Direktorat Standarisasi Produk Pangan BPOM RI.
- Briones, V., Aguilera, J. M., & Brown, C. 2006. Effect of surface topography on color and gloss of chocolate samples. *Journal of Food Engineering*, 776-783.
- Buchholz F.L, Graham A.T. 1998. Modern superabsorbent polymer technology. New York: Wiley- VCH; [chapters 1–7].
- Bucket., S.T. 1999. Industrial chocolate manufacture and use (3rd ed.) Oxford; Blackwell Science. pp 153-181, 201-230, 405-428, 460-465
- Cammack, R. 2006. *Oxford Dictionary of Biochemistry and Molecular Biology*. Oxford University Press. New York. 720
- Dalbaere, C., Walle, D. V., Depypere, F., Gellynck, X., dan Dewettinck, K. 2016. Relationship Between Chocolate Microstructure, Oil Migration, and Fat Bloom in Filled Chocolates. *European Journal of Lipid Science and Technology* 118 (2), 1800-1826
- Darwin Philips. 2013. *Menikmati Gula Tanpa Rasa Takut*. Perpustakaan Nasional: Sinar Ilmu.
- Dias, J., Alvarenga, N., & Sousa, I. 2010. Effect of hydrocolloids on low-fat chocolate fillings. *Review Journal of Food Science & Technology*, 52(11), 7209–7217
- Do T-AL, Hargreaves JM, Wolf B, Hort J, Mitchell JR (2007) Impact of particle size distribution on rheological and textural properties of chocolate models with reduced fat content. *Food Eng Phys Prop* 72(9): E541–E552
- Fahrurrozi, Puspita Lisdiyanti, Shanti Ratnakomala, Siti Fauziyyah, Miranti Nurindah Sari. 2020. *Teknologi Fermentasi dan Pengolahan Biji Kakao*. Jakarta. LIPI Press
- Franke, K., Middendorf, D., Heinz, V., Bindrich, U. 2022. Alcohol in praline fillings influences the water migration within the surrounding chocolate shell. *Journal of Food Engineering* 315 (2022) 110805.
- Furlan, LTR, Baracco, Y., Lecot, J., Zaritzky, N., & Campderros, ME. 2017. Pengaruh minyak terhidrogenasi sebagai pengganti cocoa butter dalam pengembangan coklat senyawa bebas gula: Penggunaan inulin sebagai zat penstabil. *Kimia Makanan*, 217, 637–647.
- Ghosh, V., Ziegler, G. R., & Anantheswaran, R. C. 2002. Fat, moisture, and ethanol migration through chocolates and confectionary coatings. *Critical Reviews in Food Science and Nutrition*, 42, 583–626.
- Ghosh, V., Ziegler, GR, & Anantheswaran, RC. 2002. Fat, moisture, and ethanol migration through chocolates and confectionary coatings. *Critical Reviews in Food Science and Nutrition*, 42(6), 583–626.
- Hambleton, A., Fabra, M.J., Debeaufort, F., Brun, C.D. dan Voilley, A. 2009. Interface and aroma barrier properties of iota-carrageenan emulsion-based films used for encapsulation of active food compounds. *Journal of Food Engineering* 93: 80-88.



- Hartell, R. W. 1999. Chocolate: Fat bloom during storage. *The Manufacturing Confectioner*, 89–99.
- ICCO, I. C. 2019. *Quartely bulletin of Cocoa Statistics*, Vol XLV, No. 3, Cocoa year 2018/2019.
- Indarti, E., Arpi, N., & Budijanto, S. 2013. Kajian Pembuatan Cokelat Batang dengan Metode Tempering dan Tanpa Tempering. *Jurnal Teknologi dan Industri Pertanian Indonesia*, 5(1), 1-6.
- Ismayani. 2008. *Variasi Olahan Cokelat*. Jakarta: Gramedia.
- Kelishadi, RMD. 2005. Cacao to Cocoa to Chocolate: Healthy Food. *ARYA Journal* Vol. 1., issue 1: 28 – 34.78 - 481.
- Kesuma Zakia Dwi Utami. 2015. *Pengaruh Ukuran Partikel Pasta Kakao terhadap Pembentukan Fat Bloom pada Cokelat Batang*. Repository UGM
- Kharisma, N., Waluyo, S., Tamrin. 2014. Pengaruh perbedaan Kecepatan Putar (RPM) Disc Mill Terhadap Keseragaman Ukuran Butiran Gula Semut. *Jurnal Teknik Pertanian Lampung* 3(3): 223-232
- Lehninger. 1982. *Dasar-Dasar Biokimia*. Jilid 1. Jakarta: Erlangga.
- Lipp, M dan E. Anklam. 1998. Review of Cocoa Butter and Alternative Fats for Use in Chocolate-PartA. Compositional Data. *Journal of Food Chemistry*, Vol. 62, No. I, pp. 73-97
- Lohman, M. H., & Hartel, R. W. 1994. Effect of milk fat fractions on fat bloom in dark chocolate. *Journal of the American Oil Chemists' Society*, 71(3), 267-276
- Lonchampt, P., & Hartel, R. W. 2004. Fat bloom in chocolate and compound coatings. *European Journal of Lipid Science and Technology*, 106(4), 241–274.
- Lonchampt, P., & Hartel, RW. 2004. Fat bloom in chocolate and compound coatings. *European Journal of Lipid Science and Technology*, 106(4), 241–274
- Malone M, Appelqvist I, Norton I. 2003. Oral behaviour of food hydrocolloids and emulsions. Part 2. Taste and aroma release. *Food Hydrocoll* 17:775-784. doi:10.1016/S0268-005X (03)00098-5
- Manera, F.J., Martinez, J.M.B., Conesa, A., Porras, I. 2012. Relationship Between Air Temperature and Degreening of Lemon (*Citrus lemon* L. Burm. f.) Peel Color During Maturation. *Australian Journal of Crop Science*, 6 (6).
- Marta, H., A. Widyasanti, dan T. Sukarti. 2007. Pengaruh Penggunaan Jenis Gula Dan Konsentrasi Saribahterhadap Beberapa Karakteristik Sirup Jeruk Keprok Garut (*Citrus Nobilis* Lour). Fakultas Teknologi Industri Pertanian, Universitas Padjadjaran, Bandung. (Laporan Penelitian Dasar).
- McGuire, R.G. 1992. Reporting of Objective Color Measurements. *Hort Science*, 27, 1254-1255
- Melo, Calionara Waleska Barbosa de., Bandeira, Matheus de Jesus, Maciel, Leonardo Fonseca, Bispo, Eliete da Silva., Souza, Carolina Oliveira de., Soares, Sergio Eduardo. 2018. Chemical composition and fatty acids profile of chocolates produces with different cocoa (*Theobroma cacao* L.) cultivars. *Food Sci. Technol. Campinas*, 40 (2): 326-333



- Michael, PT, dan Stephen, EH. 1998. *Sebuah Pengantar Bioteknologi Polisakarida* Taylor dan Francis, 138-139
- Mulato, S., Widyotomo, S., & Handaka. 2004. *Disain Teknologi Pengolahan Pasta, lemak, dan bubuk cokelat untuk kelompok tani*. Warta Penelitian dan Pengembangan Pertanian, Badan Litbang Pertanian, Departemen Pertanian.
- Pangabean, T.R., Pujianto, dan Wahyudi, T. 2008. *Kakao Manajemen Bisnis dari Hulu Hingga Hilir*. Penebar Swadaya: Jakarta
- Pathare, P.B., Opara, U.L., dan Al-Said, F.A.J. 2013. Colour Measurement and Analysis in Fresh and Processed Foods: A Review. *Food and Bioprocess Technology* 6:36-60.
- Pedusic S., Levaj B., Dragovic- Uzelac V., Skevin D., Skendrovic- Babo M. 2009. Color parameters and total anthocyanins of sour cherries (*Prunus cerasus* L.) during ripening. *Agriculturae Conspectus Scientificus*, 74 (3) 259-262.
- Petrucci, R. 2008. Kimia Dasar Prinsip dan Terapan Modern, Edisi Keempat Jilid 3. Jakarta, Indonesia: Erlangga.
- Pratt. 2007. "Digital Image Processing". Wiley-Interscience. *A John Wiley & Sons, Inc.*
- Prawira, R.M. dan Barringer, S.A. 2009. Effect of conching time and ingredients on preference of milk chocolate. *Journal of Food Processing and Preservation*. 571589
- Rangkuti, S. S. 2013. *Umur Simpan Soyghurt Probiotik Sebagai Filler Coklat Praline*. Fakultas Pertanian. Universitas Riau. Riau
- Santoso, Umar., Setyaningsih Widiastuti., Ningrum, Andriati., Ardhi Aulia. 2020. Analisis Pangan. UGM Press, Yogyakarta
- Saputro A D, Van de Walle D and Dewettinck K. 2019. Palm Sap Sugar: *A Review Sugar Tech*
- Saputro A D, Van de Walle D, Caiquo B A, Hinneh M, Kluczykoff M and Dewettinck K. 2019. Rheological behaviour and microstructural properties of dark chocolate produced by combination of a ball mill and a liquefier device as small-scale chocolate production system. *Lwt* 100 10–9
- Saputro, A. D., Van de Walle, D., Hinneh, M., Van Durme, J., & Dewettinck, K. 2018. Aroma profile and appearance of dark chocolate formulated with palm sugar–sucrose blends. *European Food Research and Technology*, 244(7), 1281–1292. <https://doi.org/10.1007/s00217-018-3043-2>
- Saputro, A. D., Walle, D. V., Kadivar, S., Sintang, M. D., Meeren, P. V., & Dewettinck, K. 2017. Investigating the rheological, microstructural, and textural properties of chocolates sweetened with palm sap-based sugar by partial replacement. *Eur Food Res Technol*: 1729–1738.
- Saputro, A.D., Van de Walle D., Aidoo, R.P., Mensah, M.A., Delbaere, C., De Clercq, N., Van Durme, J. and Dewettinck, K. 2016. Quality attributes of dark chocolates formulated with palm sap-based sugar as nutritious and natural alternative sweetener. *Eur. Food Res. Technol.* 243 177–91
- Saputro, Arifin Dwi, Davy Van de Walle, Sheida Kadivar, Michael Amoaf Mensah, Jim Van Durme, and Koen Dewettinck. 2017. Feasibility of a small- scale production system approach for palm sugar sweetened dark chocolate. *European Food Research and Technology* 243 (6):955-967.



- Saputro, Arifin Dwi. 2021. Sinergi Triple Helix Faktor-FAktor Kualitas Cokelat Couverture: Pentingnya Edukasi Bagi Konsumen & Produsen. *Food Review Indonesia* Vol. XVI/ No.3/ Maret 2021
- Schnell R.J, Ayala- Da Silva, Meerow A.W., Winterstein M., Cervantes C., Brown J.S. 2005. Determination of color and fruit traits of half-sib families of mango (*Magnifera indica L.*). *Proc. Fla. State Hort. Soc.*, 118, 253-257.
- Sinaga, A.S. 2019. Segmentasi Ruang Warna L*a*b*. *Jurnal Mantik Penusa* 3 (1): 43-46
- Slettengren, Katarina. 2010. *Crack Formation in Chocolate Praline*. Sweden. Chalmers University of Technology
- Smith, C. J. 2012. Improving the school-to-university transition: Using a problem-based approach to teach practical skills whilst simultaneously developing students' independent study skills. *Chemistry Education Research and Practice*, 13(4), 490–499.
- Sokmen, A., & Gunes, G. 2006. Influence of some bulk sweeteners on rheological properties of chocolate. *LWT - Food Science and Technology*, 39(10), 1053–1058.
- Spencer, J. D., A.M, Gaines., E.P, Berg, dan G.L, Allee. 2005. Diet Modification to Improve Finishing Pig Growth Performance and Pork Quality Attributes During Periods of Heat Stress. *Journal of Animal Science* 83:243–254.
- Stortz, T. A., & Maragoni, A. G. 2011. Heat resistand chocolate. *Trends in Food Sciece and Technology*, 22(5), 201-214.
- Svanberg, L., Loren, N., & Ahrne, L. 2012. Chocolate swelling during storage caused by fat or moisture migration. *Journal of Food Science*, 77(11), 328–334
- Talbot. 1999. The effects of shear and temperature history on the crystallisation of chocolate. *Journal of American Oil and Chemical Society*, 76, 677-685.
- Towaha, J., Anggraini, D. A., & Rubiyo. 2012. Keragaman mutu biji kakao dan produk turunannya pada berbagai tingkat ferentasi: studi kasus di Tabanan, Bali. *Pelita Perkebunan* 28: 166-183
- Voss D.H. 1992. Relating colourimeter measurement of plant colour to the royal horticultural society colour chart. *Hort Sci.* 27 (12) 1256–1260
- Wahyudi, T, Pangabean, dan Pujiyanto. 2008. *Panduan Lengkap Kakao*. Penebar Swadaya. Jakarta.
- Winarno, F.G. 1996. *Teknologi Pengolahan Rumput Laut*. Pustaka Sinar Harapan. Jakarta.
- Winarno, F.G. 2008. *Kimia Pangan dan Gizi*. PT Gramedia Pustaka Utama. Jakarta.
- Yasita, D dan I.D. Rachmawati. 2009. *Optimasi Proses Ekstraksi pada Pembuatan Karagenan dari Rumput Laut Eucheuma cottonii untuk Mencapai Foodgrade*. Teknik Kimia. Universitas Diponegoro.
- Yoon, K.P. and Hwang, C.L. 1995. *Multiple Attribute Decision Making: An Introduction*. Sage Publications. Thousand Oaks, CA.
- Ziegleder, G. 1997. Fat migration and bloom. *The Manufacturing Confectioner*, 43–44.
- Ziegleder, G., & Mikele, H. 1995a. Fettreif (Teil II). *Stüßwaren*, 39(10), 23–25.



Ziegler, Gregory R, Gagan Mongia, and Ruth Hollender. 2001. The Role of Particle Size Distribution of Suspended Solids in Defining The Sensory Properties Of Milk Chocolate. *International Journal of Food Properties*. 4(2), 353-370.