

### บรรณานุกรม

- นิธิยรัตน์นาปนนท์. 2541. วิทยาศาสตร์การอาหารของไขมันและน้ำมัน. ภาควิชาวิทยาศาสตร์และเทคโนโลยีการอาหาร คณะเกษตรศาสตร์ มหาวิทยาลัยเชียงใหม่. เชียงใหม่.
- ประพันธ์ ปิ่นศิริโรคม. 2544. ไขมันตัดแปลงโครงสร้าง. อาหาร. 31: 94-104.
- ปราณี อ่านเปรื่อง. 2543. เอนไซม์ครึ่งรูป. ใน เอนไซม์ทางอาหาร. ภาควิชาเทคโนโลยีทางอาหาร. หน้า 197-232. คณะวิทยาศาสตร์. จุฬาลงกรณ์มหาวิทยาลัย. กรุงเทพมหานคร.
- สายสนม ประดิษฐ์ดวง และ สิริ ชัยเสรี. 2535. ลูกกวาดและซ็อกโกแลต. ใน วิทยาศาสตร์และเทคโนโลยีอาหาร ภาควิชาวิทยาศาสตร์และเทคโนโลยีการอาหาร คณะวิทยาศาสตร์ มหาวิทยาลัยเกษตรศาสตร์. กรุงเทพมหานคร. หน้า 412 - 442 .
- สุวรรณ สุภิมารส. 2543. กรรมวิธีการผลิต เทคนิค และอุปกรณ์ในการผลิตผลิตภัณฑ์จากโกโก้และซ็อกโกแลต. ใน เทคโนโลยีการผลิตลูกกวาดและซ็อกโกแลต. หน้า 237-296. สำนักพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย. กรุงเทพมหานคร.

- Akoh, C.C., Cooper, C. and Nwosu, C.U. 1992. Lipid G-catalyzed synthesis of monoglyceride in organic solvent and analysis by HPLC. *J. Am. Oil Chem. Soc.* 69: 257 - 260.
- Ali, Md.A.R. and Dimick, P.S. 1994. Melting and solidification characteristics of confectionery fats : Anhydrous milk fat, cocoa butter and palm kernel stearin blends. *J. Am. Oil Chem. Soc.* 71: 803 - 806.
- Ali, Md.A.R., Moi, L.M., Fisal, A., Nazaruddin, R. and Sabariah, S. 1998. The application of borneo tallow in dark chocolate shell. *J. Sci. Food Agric.* 76 : 285 - 288.
- Ali, A., Selamat, J., Che Man, Y.B. and Suria, A.M. 2001. Effect of storage temperature on texture, polymorphic structure, bloom formation and sensory attributes of filled dark chocolate. *Food Chem.* 72: 491-497.
- Alpaslan, M. and Karaali, A. 1998. The interesterification-induced changes in olive and palm oil blends. *Food Chem.* 61: 301-305.
- Amer, M.A., Kuprancyz, D.B. and Baker, B.E. 1985. Physical and chemical properties of butter fat fractions obtained by crystallization from molten fat. *J. Am. Oil Chem. Soc.* 62: 1551 - 1557.
- AOAC. 1990. *Official Methods of Analysis*. (5<sup>th</sup> ed) . Association of Official Analytical Chemists, Washington D.C.
- Arishima, T., Sagi, N., Mori, H. and Sato, K. 1991. Polymorphism of POS. I. Occurrence and polymorphic transformation. *J. Am. Oil Chem. Soc.* 68: 710 - 715.
- Basheer, S., Moji, K. and Namajima, M. 1995. Interesterification kinetics of triglycerides and fatty acid modified lipase in n - hexane. *J. Am. Oil Chem. Soc.* 72: 511-518.

- Beckett, S.T. 1988. Traditional Chocolate Making. *In* Industrial Chocolate Manufacture and Use. (Beckett, S.T., ed.). p. 1 - 6. Van Nostrand Reinhold. New York.
- Bloomer, S., Adlercreutz, P. and Mattisson, B. 1990. Triglyceride interesterification by lipase. I. cocoa butter equivalents from fraction palm olein (FPO). *J. Am. Oil Chem. Soc.* 67: 519-524.
- Bouzas, J. and Brown, B.D. 1995. Interactions Effecting Microstructure, Texture, and Rheology of Chocolate Confectionery Products. *In* Ingredient interactions. (Gaonkar, A.G., ed.). p. 451 - 527. Marcel Dekker, Inc. New York.
- Chong, C.N., Hon, Y.M. and Wang, C.M. 1992. Fractionation procedures for obtaining cocoa butter - like fat bloom enzymatically interesterified palm olein. *J. Am. Oil Chem. Soc.* 96: 137 - 140.
- Davis, T.R. and Dimick, P.S. 1989. Crystals formed during cocoa butter solidification. *J. Am. Oil Chem. Soc.* 66: 1488 - 1493.
- Foglia, T.A., Petruoso, K. and Fairheller, S.H. 1993. Enzymatic interesterification of tallow-sunflower oil mixtures. *J. Am. Oil Chem. Soc.* 70: 281-285.
- Forsell, P., Kervinen, R., Lappi, M., Linko, P., Sourtti, T. and Poutanen, K. 1992. Effect of enzymatic interesterification on the melting point of tallow - rapeseed oil (LEAR) mixture. *J. Am. Oil Chem. Soc.* 69: 126 - 129.
- Gandhi, N.N. 1997. Applications of lipase. *J. Am. Oil Chem. Soc.* 74: 621 - 634.
- Gegiou, D. and Staphylakis, K. 1985. Detection of cocoa butter equivalents in chocolate. *J. Am. Oil Chem. Soc.* 62: 1047 - 1051.
- Gunstone, F.D. 1998. Movements towards tailor-made fats. *Prog. Lipid Res.* 37: 277-305.

- Gunstone, F.D. 1999. Enzyme as biocatalysts in the modification of nature lipid. *J. Sci. Food Agric.* 79: 1535-1549.
- Hernqvist, L. 1988. Chocolate Temper. *In Industrial Chocolate Manufacture and Use.* (Beckett, S.T., ed.). p. 159 - 171. Van Nostrand Reinhold. New York.
- Hoskin, J.C. and Dimick, P.S. 1988. Chemistry of Flavour Development in Chocolate. *In Industrial Chocolate Manufacture and Use.* (Beckett, S.T., ed.). p. 108 - 121. Van Nostrand Reinhold. New York.
- IUPAC. 1979. Standard Methods for the Analysis of Oils, Fats and Derivative. 6<sup>th</sup> Ed. Part I. Pergamon Press. Paris.
- Jacobsberg, B. and Jacqmain, D. 1997. Palm Oil Fractionation as Related to the Crystallization Properties of Triglycerides. *In International Developments in palm oil.* (Earp, D.A. and Newall, W. eds.). p. 257. Rajiv Printers. Kuala Lumpur.
- Johnston, G.M. 1972. Fats and process used in manufacturing chocolate and confectionery coatings. *J. Am. Oil Chem. Soc.* 49: 462 - 467.
- Khumolo, L.W., Majoka, L., Read, J.S. and Ncube, I. 2002. Characterisation of some underutilised vegetable oils and their evaluation as starting materials for lipase-catalysed production of cocoa butter equivalent. *Indust. Crops prod.* 16: 237-244.
- Kreulen, H.P. 1993. Fractionation and winterization of edible fats and oil. *J. Am. Oil Chem. Soc.* 70: 121-129.
- Landmann, W., Feuge, R.O. and Lovegren, N.B. 1960. Melting and dilatometric behavior of 2 - oleopalmitostearin and 2 - oleodistearic. *J. Am. Oil Chem. Soc.* 37: 638 - 643.

- Lawler, P.J. and Dimick, P.S. 1998. Crystallization and Polymorphism of fats. *In Food Lipid: Chemistry, Nutrition and Biotechnology*. (Akoh, L.C. and Min, D.B., eds.). p. 229-247. Marcel Dekker. New York.
- Ley, D. 1994. Conching. *In Industrial Chocolate Manufacture and Use*. 2 nd. (Beckett, ed.). p.117-138. Blackie Academic & Professional. Glasgow.
- Lipp, M. and Anklam, E. 1998. Review of cocoa butter and alternative fats for use in chocolate. Part A. Compositional data. *Food Chem.* 62: 73 - 97.
- Lipp, M., Simoneau, C., Ulberth, F., Anklam, E., Crewat, C., Breretont, P., Greyti, W., Schwack, W. and Wiedmaier, C. 2001. Composition of genuine cocoa butter equivalent the determination of the triglyceride profile of cocoa butter equivalent. *J. Food Comp. Anal.* 14: 399-408.
- Lohman, M.H. and Hartel, R.M. 1994. Effect of milk fat fraction on fat bloom in dark chocolate. *J. Am. Oil Chem. Soc.* 71: 267 - 276.
- Loisel, C., Lecq, G., Keller, G. and Ollivon, M. 1998. Dynamic crystallization of dark chocolate as affected by temperature and lipid additive. *J. Food Sci.* 63: 73 - 79.
- Loisel, C., Keller, G., Lecq, G., Bourgaux, C. and Ollivon, M. 1998. Phase transitions and polymorphism of cocoa butter. *J. Am. Oil Chem. Soc.* 75: 425 - 439.
- Lovegren, N.V., Gray, M.S. and Feuge, R.O. 1976. Polymorphic changes in mixtures of confectionery fat. *J. Am. Oil Chem. Soc.* 53: 108.
- Lutton, E.S. 1972. Lipid structures. *J. Am. Oil Chem. Soc.* 49 : 1 - 9.

- MacKenzie, A.D. and Stevenson, D.E. 2000. Production of high-oleic tallow fractions using lipase-catalyzed directed interesterification, using both batch and continuous processing. *Enzyme Microb. Technol.* 27:302-311.
- Macrae, A.R. 1983. Lipase - catalyzed interesterification of oil and fat. *J. Am. Oil Chem. Soc.* 60: 243 - 246.
- Minifie, B.W. 1989. *Chocolate Cocoa and Confectionery : Science and Technology*. 3<sup>th</sup> Ed. AVI Book Publishing Company, Inc. New York.
- Miquel, M.E., Carti, S., Couzens, P.J., Wille, H.J. and Hall, D. 2001. Kinetics of the migration of lipids in composite chocolate measured by magnetic resonance imaging. *Food Eng.* 34: 773-781.
- Mojovic, L., Marinkovic, S.S., Kukic, G. and Navokavic, G.V. 1993. *Rhizopus orrhizus* lipase - catalyzed interesterification of the palm oil to a cocoa butter equivalent fat. *Enzyme Microb. Tech.* 15: 438 - 443.
- Nelson, R.B. 1994. Pumps and Tempering. *In Industrial Chocolate Manufacture and Use*. 2<sup>nd</sup>. (Beckett, ed.). p.167-210. Blackie Academic & Professional. Glasgow.
- Nesaretnam, K. and Razak, A.A.M. 1992. Engkabang (Illipe) an excellent component for cocoa butter equivalent fat. *J. Sci. Food Agric.* 60: 15 - 20.
- Nickless, H. and Sidaway, G.F. 1980. Use of Fat in Confectionery. *In Fat and Oil Technogy*. (Hamilton, R.J. and Bhati, A., eds.). p. 162 - 172. Applied Science Publishers Ltd. London.
- Niediek, E.A. 1989. Particle Size Reduction. *In Industrial Chocolate Manufacture and Use*. (Beckett, S.T., ed.). p. 89 - 107. Van Nostrand Reinhold. New York.

- Nor - Anni, I. and Che - maimon, C.H. 1996. Cereal chemistry. Am. Assoc. Cereal Chem. 73: 462 - 465.
- Oh Flingoh, C.H. and Berger, K.G. 1981. Physical properties of palm oil in relation to food use. PORIM. Bulletin. 2: 13-24.
- Pszczola, D.E. 1997. The bloom is off the chocolate. Food Technol. 51 (3): 28.
- Ransom - Painter, K.L. 1995. Incorporation of Milk Fat Fraction and Cocoa Butter into Palm Oil - Based Compound Coating. M.S. Thesis University of Wisconsin, Madisons.
- Reddy, S.Y. and Phabhakar, J.V. 1994. Cocoa butter extenders from kokum (*Garrinia indikar*) and phuwara (*Madhuca butyracea*) butter. J. Am. Oil Chem. Soc. 71: 1 - 3.
- Samsudin, S. and Ali, Md.A.R. 1996. Use of palm mid - fraction in white chocolate formulation. J. Sci. Food Agric. 71: 483 - 490.
- Sara, D., Kelly, L. and Richard, W. 1997. Mixture of palm kernel oil with cocoa butter and milk fat compound coating. J. Am. Oil Chem. Soc. 74: 357 - 366.
- Sato, K. 1987. Physical and molecular properties of lipid polymorphs. A review. Food Microstructure. 6: 151-159.
- Sato, K., Arishima, T., Wang, Z.H., Ojima, K., Sagi, N. and Mori, H. 1989. Polymorphism of POP and SOS. I. occurrence and polymorphic transformation. J. Am. Oil Chem. Soc. 66: 664 - 674.
- Slater, C.A. 1986. Confectionery Fat. In Developments in Oil and Fat. (Herschdoer, S.M., ed.). p. 160 - 170. Academic Press. London.

- Talbot, G. 1994. Vegetable Fats. *In* Industrial Chocolate Manufacture and Use. (Beckett, S.T. ed.). P. 242-257. Blackie Academic & Professional. Glasgow.
- Tewkesbury, H., Stapley, A.G.F. and Fryer, P.J. 2000. Modelling temperature distributions in cooling chocolate moulds. *Chem. Eng. Sci.* 55: 3123-3132.
- Undurraga, D., Markouits, A. and Erazo, S. 2001. Cocoa butter equivalent through enzymic interesterification of palm oil midfraction. *Process Biochem.* 36: 933-939.
- Urbanski, J. 1989. The effect of cocoa bean selection upon the characteristics of chocolate. *Manufact. Confect.* 69: 103 - 108.
- Vercet, A. 2003. Browning of white chocolate during storage. *Food Chem.* 80: 1-7.
- Wainwright, R.E. 1996. Oils and Fats in Confections. *In* Bailey, s Industrial Oil and Fat Product. Vol. 3. (Hui, Y.H., ed.). p. 353 - 407. John Wiley and Sons, Inc. New York.
- Whill, R.L. and Lutton, E.S. 1966. Polymorphism of cocoa butter. *J. Am. Oil Chem. Soc.* 43: 491 - 496.
- Willis, W.M. and Marangoni, A.G. 1998. Enzymatic Interesterification. *In* Food Lipids. (Akoh, C.C. and Min, D.B., eds). P. 665-698. Marcel Dekker. New York.
- Xu, X. 2000. Production of specific-structured triacylglycerols by lipase-catalyzed reactions: a review. *J. Lipid Sci. Technol.* 102: 287-303.
- Yamane, T. 1987. Enzyme technology for the lipid industry: An engineering overview. *J. Am. Oil Chem. Soc.* 64: 1657-1661.
- Ziegleder, G. 1997. Fat migration and bloom. *Manufact. Confect.* 77: 43-44.



Zainal, Z. and Yusoff, M.S. 1999. Enzymatic interesterification of palm stearin and palm kernel olein. *J. Am. Oil Chem. Soc.* 74: 357 - 366.