

DAFTAR PUSTAKA

- Agrawal, S.S. dan Pruthi, J.K., 2011. Development and evaluation of matrix type transdermal patch of ethinylestradiol and medroxyprogesterone acetate for anti-implantation activity in female Wistar rats. *Contraception*, **84**: 533–538.
- Alarcon-Aguilar, F.J., Zamilpa, A., Perez-Garcia, M.D., Almanza-Perez, J.C., Romero-Nuñez, E., Campos-Sepulveda, E.A., dkk., 2007. Effect of *Hibiscus sabdariffa* on obesity in MSG mice. *Journal of Ethnopharmacology*, **114**: 66–71.
- Alarcón-Alonso, J., Zamilpa, A., Aguilar, F.A., Herrera-Ruiz, M., Tortoriello, J., dan Jimenez-Ferrer, E., 2012. Pharmacological characterization of the diuretic effect of *Hibiscus sabdariffa* Linn (Malvaceae) extract. *Journal of Ethnopharmacology*, **139**: 751–756.
- Alexander, A., Dwivedi, S., Ajazuddin, Giri, T.K., Saraf, S., Saraf, S., dkk., 2012. Approaches for breaking the barriers of drug permeation through transdermal drug delivery. *Journal of Controlled Release*, **164**: 26–40.
- Animesh G., Chaurasia, U., Singh, A., dan Saharan, A.V., 2014. Development and Evaluation of Transdermal Patches of Aceclofenac. *The Thai Journal of Pharmaceutical Sciences*, **38**: 90–97.
- Anonim, 1995. *Farmakope Indonesia Edisi IV*. Departemen Kesehatan Republik Indonesia, Jakarta.
- Anonim, 2008. *Farmakope Herbal Indonesia*. Departemen Kesehatan Republik Indonesia, Jakarta.
- Barry, B., 1983. *Dermatological Formulations : Percutaneous Absorption*. Marcel Dekker Inc., New York.
- Benson, A.E.H. dan Watkinson, C.A., 2012. *Transdermal and Topical Drug Delivery : Principles and Practice*, First Edition. ed. John Wiley & Sons, Inc.
- Benson, H.A.E., 2005. Transdermal drug delivery: penetration enhancement techniques. *Current Drug Delivery*, **2**: 23–33.
- Da-Costa-Rocha, I., Bonnlaender, B., Sievers, H., Pischel, I., dan Heinrich, M., 2014. *Hibiscus sabdariffa* L. – A phytochemical and pharmacological review. *Food Chemistry*, **165**: 424–443.
- Dinesh Kumar, V., Verma, P.R.P., dan Singh, S.K., 2015. Development and evaluation of biodegradable polymeric nanoparticles for the effective delivery of quercetin using a quality by design approach. *LWT - Food Science and Technology*, **61**: 330–338.
- Elhassan Rahman, E.H.A., Ahmmed, E.M., dan Sirag, N., 2014. Standardization of Roselle (*Hibiscus sabdariffa* L.) Calyx cultivated in Sudan. *journal of Medicinal Plants Research*, **8**: 217–222.
- Engida, A.M., Kasim, N.S., Tsigie, Y.A., Ismadji, S., Huynh, L.H., dan Ju, Y.-H., 2012. Extraction, Identification, and Quantitative HPLC Analysis of Flavonoid From Sarang Semut (*Myrmecodia pendan*). *Industrial Crops and Products*, **41**: 392–396.

- Fernández-Arroyo, S., Rodríguez-Medina, I.C., Beltrán-Debón, R., Pasini, F., Joven, J., Micol, V., dkk., 2011. Quantification of the polyphenolic fraction and in vitro antioxidant and in vivo anti-hyperlipemic activities of *Hibiscus sabdariffa* aqueous extract. *Food Research International*, **44**: 1490–1495.
- Greenberg, A.S. dan Obin, M.S., 2006. Obesity and the role of adipose tissue in inflammation and metabolism. *The American Journal of Clinical Nutrition*, **83**: 461S–465S.
- Helal, F. dan Lane, M.E., 2014. Transdermal delivery of Angiotensin Converting Enzyme inhibitors. *European Journal of Pharmaceutics and Biopharmaceutics: Official Journal of Arbeitsgemeinschaft Für Pharmazeutische Verfahrenstechnik e.V*, **88**: 1–7.
- Hopkins, A.L., Lamm, M.G., Funk, J.L., dan Ritenbaugh, C., 2013. *Hibiscus sabdariffa* L. in the treatment of hypertension and hyperlipidemia: A comprehensive review of animal and human studies. *Fitoterapia*, **85**: 84–94.
- Jernas, M., 2008. *Microarray Analysis of Gene Expression in Human Adipocyte and Adipose Tissue*. Intellecta Docusys AB, Goteborg University Sweden.
- Kalluri, H. dan Banga, A.K., 2011. Transdermal delivery of proteins. *AAPS PharmSciTech*, **12**: 431–441.
- Karande, P. dan Mitragotri, S., 2009. Enhancement of transdermal drug delivery via synergistic action of chemicals. *Biochimica Et Biophysica Acta*, **1788**: 2362–2373.
- Khamis Al-Jadidi, H.S. dan Hossain, M.A., 2015. Studies on total phenolics, total flavonoids and antimicrobial activity from the leaves crude extracts of neem traditionally used for the treatment of cough and nausea. *Beni-Suef University Journal of Basic and Applied Sciences*, **4**: 93–98.
- Kim, J.-K., So, H., Youn, M.-J., Kim, H.-J., Kim, Y., Park, C., dkk., 2007. *Hibiscus sabdariffa* L. water extract inhibits the adipocyte differentiation through the PI3-K and MAPK pathway. *Journal of Ethnopharmacology*, **114**: 260–267.
- Kumar, S., Pandey, A.K., Kumar, S., dan Pandey, A.K., 2013. Chemistry and Biological Activities of Flavonoids: An Overview, Chemistry and Biological Activities of Flavonoids: An Overview. *The Scientific World Journal, The Scientific World Journal*, **2013**, **2013**: e162750.
- Lai-Cheong, J.E. dan McGrath, J.A., 2013. Structure and function of skin, hair and nails. *Medicine, Dermatology Part 1 of 2* **41**: 317–320.
- Lane, M.E., 2013. Skin penetration enhancers. *International Journal of Pharmaceutics*, **447**: 12–21.
- Markham, K., 1988. *Cara Mengidentifikasi Flavonoid*. ITB Bandung, Bandung.
- Mbah, C.C., Builders, P.F., Akuodor, G.C., dan Kunle, O.O., 2012. Pharmaceutical Characterization of Aqueous Stem Bark Extract of *Bridelia ferruginea* Benth (Euphorbiaceae). *Tropical Journal of Pharmaceutical Research*, **11**: 637–644.
- McGrath, J.A., Eady, R. a. J., dan Pope, F.M., 2004. Anatomy and Organization of Human Skin, dalam: FRCP(Edin), T.B.M., BS, FRCP, FRCP, S.B., MB, BChir, MD, Edin), N.C.Bs., MB, ChB, FRCP(Lond &., dan FRCPPath,

- C.G.Bs., MD, FRCP (Editor), *Rook's Textbook of Dermatology*. Blackwell Publishing, Inc., hal. 45–128.
- Nabavi, S.F., Russo, G.L., Daglia, M., dan Nabavi, S.M., 2015. Role of quercetin as an alternative for obesity treatment: You are what you eat! *Food Chemistry*, **179**: 305–310.
- Nair, R.S., Ling, T.N., Abdul Shukkoor, M.S., dan Manickam, B., 2013. Matrix type transdermal patches of captopril: Ex vivo permeation studies through excised rat skin. *Journal of Pharmacy Research*, **6**: 774–779.
- Nugroho, A.K., 2013. *Sediaan Transdermal Solusi Masalah Terapi Obat*. Pustaka Pelajar, Yogyakarta.
- Nurkhasanah, N., Yuwono, T., Nurani Hayu, L., Rizki Ikhwan, M., dan Kraisintu, K., 2015. The Development of Chitosan Nanoparticles From *Hibiscus sabdariffa* L Calyx Extract From Indonesia and Thailand. *International Journal of Pharmaceutical Sciences and Research*, **6**: 1855–1861.
- Oliveira, C.M., Ferreira, A.C.S., De Freitas, V., dan Silva, A.M.S., 2011. Oxidation mechanisms occurring in wines. *Food Research International*, **44**: 1115–1126.
- Padwal, R.S. dan Majumdar, S.R., 2007. Drug treatments for obesity: orlistat, sibutramine, and rimonabant. *Lancet*, **369**: 71–77.
- Pinsuwan, S., Annuaikit, T., Ungphaiboon, S., dan Itharat, A., 2015. Liposome-Containing *Hibiscus sabdariffa* Calyx extract Formulations with Increased Antioxidant Activity, Improved Dermal Penetration and Reduced Dermal Toxicity. *Journal of The Medical Association of Thailand*, **93**: 216–226.
- Pisipati, A. dan Satya Venkata, S.C., 2013. Formulation and characterization of anti hypertensive transdermal delivery system. *Journal of Pharmacy Research*, **6**: 551–554.
- Prabhu, P., Shah, S., dan Gundad, S., 2011. Formulation development and investigation of domperidone transdermal patches. *International Journal of Pharmaceutical Investigation*, **1**: 240–246.
- Rowe, C.R., Sheskey, J.P., dan Quinn, E.M., 2009. *Handbook of Pharmaceutical Excipients*, Sixth Edition. ed. Pharmaceutical Press, London, Chicago.
- Sharma, P., Modi, S.R., dan Bansal, A.K., 2015. Co-processing of hydroxypropyl methylcellulose (HPMC) for improved aqueous dispersibility. *International Journal of Pharmaceutics*, **485**: 348–356.
- Shrivastava, A. dan Gupta, V.B., 2011. Methods for the determination of limit of detection and limit of quantitation of the analytical methods. *Chronicles of Young Scientist*, **2**: 21–25.
- Singh, I. dan Morris, A.P., 2011. Performance of transdermal therapeutic systems: Effects of biological factors. *International Journal of Pharmaceutical Investigation*, **1**: 4–9.
- Subedi, R.K., Oh, S.Y., Chun, M.-K., dan Choi, H.-K., 2010. Recent advances in transdermal drug delivery. *Archives of Pharmacal Research*, **33**: 339–351.
- Sukhdev, S. dan Singh, K.S., 2013. Therapeutic Role of Phytomedicine on Obesity : Importance of Herbal Pancreatic Lipase Inhibitor. *International Research Journal of Medical Sciences*, **1**: 15–26.

- Suksaeree, J., Charoenchai, L., dan Madaka, F., 2015. Zingiber cassumunar blended patches for skin application: Formulation, physicochemical properties, and in vitro studies. *Asian Journal Of Pharmaceutical Sciences*, **10**: 341–349.
- van de Loosdrecht, A.A., Beelen, R.H.J., Ossenkoppele, G.J., Broekhoven, M.G., dan Langenhuijsen, M.M.A.C., 1994. A tetrazolium-based colorimetric MTT assay to quantitate human monocyte mediated cytotoxicity against leukemic cells from cell lines and patients with acute myeloid leukemia. *Journal of Immunological Methods*, **174**: 311–320.
- Wokovich, A.M., Strasinger, C., Kessler, J., Cai, B., Westenberger, B., Jhong Rhee, M., dkk., 2015. Cold flow measurement of transdermal drug delivery systems (TDDS). *International Journal of Adhesion and Adhesives*, **59**: 71–76.
- Wong, T.W., 2014. Electrical, magnetic, photomechanical and cavitation waves to overcome skin barrier for transdermal drug delivery. *Journal of Controlled Release*, **193**: 257–269.
- Yang, J.-Y., Della-Fera, M.A., Hartzell, D.L., Nelson-Dooley, C., Hausman, D.B., dan Baile, C.A., 2006. Esculetin Induces Apoptosis and Inhibits Adipogenesis in 3T3-L1 Cells. *Obesity*, **14**: 1691–1699.