DAFTAR PUSTAKA

Alagusundaram, M., Madhu, S.C.C., Umashankari, K., Badarinath, A.V., Lavanya, C. dan Ramkanth, S. 2009. Microspheres as a Novel Drug Delivery Sistem. *International Journal of ChemTech Research*, Vol. 1 No. 3, p. 526-534.

Almeida, Hugo, Maria Helena Amaral, dan Paulo Lobao. 2012. Temperature dan pH stimuli-responsive polymers dan their applications in controlled dan selfregulated drug delivery. Journal of Applied Pharmaceutical Science 02 (06): 01-10.

Amaro, M.I., Tajber, L., Corrigan, O.I., Healy, A.M., 2011. Optimisation of spray drying process conditions for sugar nanoporousmicroparticles (NPMPs) intended for inhalation. *International Journal of Pharmaceutics*, Vol. 421, p. 99– 109.

Azimova, S.S. dan Vinogradova, V.I., 2013. Physicochemical dan Pharmacological Properties of Flavonoids. *Natural compounds–flavonoids*.

Bampa, Grigoria, Despina Moraitou, Panayiota Metallidou, dan Magdalini Tsolaki. 2017. "Metacognition in MCI: A Research Proposal on Assessing the Efficacy of a Metacognitive Intervention." *Hellenic Journal of Nuclear Medicine* 20: 12–20.

Birnbaum, Duanet dan Lisa Brannon. 2002. Molecular weight distribution changes during degradation dan release of PLGA nanoparticles containing epirubicin HCl. *J. Biomater. Sci. Polymer Edn*, Vol. 14, No. 1, pp. 87–102.

Choi, Ki Seok, Joydeb Kumar Kundu, Kyung Soo Chun, Hye Kyung Na, dan Young Joon Surh. 2014. "Rutin Inhibits UVB Radiation-Induced Expression of COX-2 dan INOS in Hairless Mouse Skin: P38 MAP Kinase dan JNK as Potential Targets." *Archives of Biochemistry dan*

Biophysics 559 (May): 38–45.

Edgar, Kevin J. 2006. Cellulose esters in drug delivery. Eastman Chemical Company, 1972, Kingsport, TN 37662, USA

Ganeshpurkar, Aditya, dan Ajay K. Saluja. 2017. "The Pharmacological Potential of Rutin." *Saudi Pharmaceutical Journal* 25 (2): 149–64.

Gharsallaoui, A., Roudaut, G., Chambin, O., Voilley, A., dan Saurel, R., 2007. Applications of Spry-Drying in Miicroencapsulation of Food Ingredients: An overview. *Food Research International*, Vol. 40, p. 1107-1121.

Guardia, Teresita, Alejdanra Ester Rotelli, Americo Osvaldo Juarez, dan Lilian Eugenia Plezer. 2001. Anti-inflammatory properties of plant flavonoids. Effects of rutin, quercetin dan hesperidin on adjuvant arthritis in rat. II Farmaco 56 halaman 683-687

Guo, Rong, dan Ping Wei. 2008. "Studies on the Antioxidant Effect of Rutin in the Microenvironment of Cationic Micelles." *Microchimica Acta* 161 (1–2): 233–39.

He, P., Davis S.S., Illum L. 1999. Chitosan Microspheres Prepared by Spray Drying. *International Journal Of Pharmaceutics*, Vol. 187, p. 53-65.

J. Swarbrick dan J. C. Boylan . 2007. Encyclopedia of Pharmaceutical Technology. Marcel Dekker, Inc., New York, USA.

Janbaz, Khalid H., Sheikh A. Saeed, dan Anwar H. Gilani. 2002. "Protective Effect of Rutin on Paracetamol- dan CCl4-Induced Hepatotoxicity in Rodents." *Fitoterapia* 73 (7–8): 557–63.

Joshi, Meenakshi. 2013. "Role of Eudragit in Targeted Drug Delivery." *International Journal of Current Pharmaceutical Research* 5 (2): 58–62.

Kadam, N.R. dan Survana V. 2015. Microsphere: A Brief Review. Department of Quality Assurance, SVKM's Dr. Bhanuben Nanavati

College of Pharmacy, Vile Parle, Mumbai. Maharashtra, India.

Kiliçarslan, Müge, dan Tamer Baykara. 2003. "The Effect of the Drug/Polymer Ratio on the Properties of the Verapamil HCl Loaded Microspheres." *International Journal of Pharmaceutics* 252 (1–2): 99–109.

Lauro, M.R., L. Maggi, U. Conte, F. De Simone, dan R.P. Aquino. 2005. "Rutin dan Quercetin Gastro-Resistant Microparticles Obtained by Spray-Drying Technique." *Journal of Drug Delivery Science dan Technology* 15 (5): 363–69. Macromolecules

Mauludin, Rachmat, Rainer H. Müller, dan Cornelia M. Keck. 2009. "Development of an Oral Rutin Nanocrystal Formulation." *International Journal of Pharmaceutics* 370 (1–2): 202–9.

Maury, Michael, Keith Murphy, Sandeep Kumar, Lei Shi, dan Geoffrey Lee. 2005. Effects of process variables on the powder yield of spray-dried trehalose on a laboratory spray-dryer. European Journal of Pharmaceutics and Biopharmaceutics 59 (2005) 565–573

Medical, Palestinian, Murad N Abualhasan, dan David G Watson. 2017. "Dissolution Method Development dan Validation of Rutin Tabelt," no. March.

Miyake, Kouzou, Hidetoshi Arima, Fumitoshi Hirayama, Masanobu Yamamoto, Takashi Horikawa, Hideyuki Sumiyoshi, Shuji Noda, dan Kaneto Uekama. 2000. "Improvement of Solubility dan Oral Bioavailability of Rutin by Complexation with 2-Hydroxypropyl-β-Cyclodextrin." *Pharmaceutical Development dan Technology* 5 (3): 399–407.

Moustafine, R I, T V Kabanova, V A Kemenova, dan G Van Den Mooter. 2005. "Characteristics of Interpolyelectrolyte Complexes of Eudragit E100 with Eudragit L100" 103: 191–98.

Mundargi, Raghavendra C., Vidhya Rangaswamy, dan Tejraj M. Aminabhavi. 2011. pH-Sensitive oral insulin delivery sistems using Eudragit microspheres. *Drug Development dan Industrial Pharmacy*, 37(8): 977–985.

Nadal, Jessica Mendes *et.al*.2016. Spray-dried Eudragit L100 microparticles containing ferulic acid: Formulation, in vitro cytoprotection and in vivo anti-platelet effect. Materials Science and Engineering C 64 (2016) 318–328

Nikam, Vikrant K, Kiran B Kotade, Vinayak M Gaware, Dolas Ramdas T, B Dhamak Kiran, Sachin B Somwanshi, Atul N Khadse, dan Vivekandan A Kashid. 2011. "Eudragit a Versatile Polymer: A Review." *Pharmacologyonline* 1: 152–64.

Olaleye, M. T., O. O. Crown, A. C. Akinmoladun, dan A. A. Akindahunsi. 2014. "Rutin dan Quercetin Show Greater Efficacy than Nifedipin in Ameliorating Hemodynamic, Redox, dan Metabolite Imbalances in Sodium Chloride-Induced Hypertensive Rats." *Human dan Experimental Toxicology* 33 (6): 602–8.

Palmieri, G.F., G. Bonacucina, P. Di Martino, dan S. Martelli. SHORT COMMUNICATION Gastro-resistant microspheres containing ketoprofen. J. Microencapsulation, 2002, vol. 19, no. 1, 111-119

Paudel, A., Worku, Z.A., Meeus, J., Guns, S. dan Van den Mooter, G., 2013. Manufacturing of solid dispersions of poorly water soluble drugs by spray drying: formulation dan process considerations. *International Journal of Pharmaceutics*, Vol. 453 No. 1, pp.253-284.

Peighambardoust, S.H., A. Golshan Tafti, dan J. Hesari. 2011. Aplication of spray drying for preservation of lactic acid starter culture: a review. Trends in Food Science & Technology 22 (2011) 215 – 224.

Ramaswamy Shanmugam, Dwarampudi.L.Priyanka, Kadiyala Madhuri,

Kuppuswamy Gowthamarajan, Veera Venkata Satyanarayana Reddy Karri, Chivarama.K.Ashok Kumar, Paranjothy Murali, Formulation and Characterization of Chitosan Encapsulated Phytoconstituents of Curcumin and Rutin Nanoparticles, International Journal of Biological

Ré, Maria Inês. 2006. "Formulating Drug Delivery Sistems by Spray Drying." *Drying Technology* 24 (4): 433–46.

Rizi, K., Green, R. J., Donaldson, M., & Williams, A. C. (2011). *Production of pH-Responsive Microparticles by Spray Drying: Investigation of Experimental Parameter Effects on Morphological and Release Properties. Journal of Pharmaceutical Sciences, 100(2), 566–579.* doi:10.1002/jps.22291

Sahoo, Sunit Kumar, Abdul Arif Mallick, BB Barik, dan Prakash Ch Senapati. 2005. Formulation dan *in vitro* Evaluation of Eudragit® Microspheres of Stavudine. Tropical Journal of Pharmaceutical Research 4 (1): 369-375

Satheesh Madhav, N. V., dan Shivani Kala. 2011. "Review on Microparticulate Drug Delivery Sistem." *International Journal of PharmTech Research* 3 (3): 1242–54.

Shaikh, Hina Kouser., Kshirsagar, R.V., Patil, PS.G. 2015. Mathematical Models for Drug Release Characterization: A Review. *World Journal of Pharmacy dan Pharmaceutical Sciences. Volume 4, Issue 04, 324-338*

Shan L, Tao, E.X., Meng, Q.H.M Hou, W. X., Liu, K., Shang , H.C., Tang, J.B., dan Zhang, ,F. 2016. Formulation, optimization, dan pharmacodynamic evaluation of chitosan/phospholipid/β-cyclodextrin microspheres. *Drug Design, Development dan Terapy,* Vol. 10, p. 417-419

Singh, Devendra, M. S.M. Rawat, Ajay Semalty, dan Mona Semalty. 2012. "Rutin-Phospholipid Complex: An Innovative Technique in Novel Drug Delivery Sistem- NDDS." *Current Drug Delivery* 9 (3): 305–14.

Singh, Ravindra Pal, Nasit sarju, Anil Sharma, Stuti Gupta Singh, dan Khunt Sanket. 2011. "Microchip for Drug Delivery Sistem: A Review." *Journal of Applied Pharmaceutical Science* 1 (4): 07-11.

Sosnik, A. dan Seremeta, K.P., 2015. Advantages dan challenges of the spray-drying technology for the production of pure drug particles dan drug-loaded polymeric carriers. *Advances in colloid dan interface science*, Vol. 223, pp.40-54.

Streubel, A., J. Siepmann, R. Bodmeier. 2012. Floating microparticles based on low density foam powder. International Journal of Pharmaceutics 241 (2002) 279–292

Su, Kang Yi, Chao Yuan Yu, Yue Wen Chen, Yi Tsau Huang, Chun Ting Chen, Hsueh Fu Wu, dan Yi Lin Sophia Chen. 2014. "Rutin, a Flavonoid dan Principal Component of Saussurea Involucrata, Attenuates Physical Fatigue in a Forced Swimming Mouse Model." *International Journal of Medical Sciences* 11 (5): 528–37.

Tao, Sarah L, Tejal A Desai, dan Tejal A Desai. 2005. "Gastrointestinal Patch Sistems for Oral Drug Delivery to This Innovative Therapeutic Platform . REVIEWS" 10 (13).

Wu, Pao-Chu, Yaw-Bin Huang, Jui-Sheng Chang, Ming-Jun Tsai, Yi-Hung Tsai. 2003. Design dan evaluation of sustained release microspheres of potassium chloride prepared by Eudragit®. European Journal of Pharmaceutical Sciences 19 (2003) 115–122

Yamauchi, Yusuke, Prashant Gupta, Keisuke Sato, Naoki Fukata, Shin-ichi Todoroki, Satoru Inoue, dan Satoshi Kishimoto. 2009. Industrial mass-production of mesoporous silica spherical particles by a spray-drying

process: investigation of synthetic conditions. European Journal of Pharmaceutics and Biopharmaceutics 59 (2005) 565–573

Yeo, Yoon, Namjin Baek, dan Kinam Park. 2001. Microencapsulation Methods for Delivery of Protein Drugs. Biotechnol. Bioprocess Eng, 6: 213-230.

Zi, Junqing, Bin Peng, dan Weidong Yan. 2007. "Solubilities of Rutin in Eight Solvents at T = 283.15, 298.15, 313.15, 323.15, dan 333.15 K." *Fluid Phase Equilibria* 261 (1–2): 111–14.