

DAFTAR PUSTAKA

- Ahonen M.H., Tenkanen L., Teppo L., Hakama M., Tuohimäki P., 2000, Prostate cancer risk and prediagnostic serum 25-hydroxyvitamin D levels, *Cancer Causes Control* 11:847-852., Finland.
- Ali, M. S., Alam, M. S., Alam, N., Siddiqui M. R., 2014, Preparation, Characterization and Stability Study of Dutasteride Loaded Nanoemulsion for Treatment of Benign Prostatic Hypertrophy, *Iranian Journal of Pharmaceutical Research*, 13 (4) : 1125-1140.
- Ambarwati, P., 2015, Optimasi Komposisi Tween 20 dan Propilen Glikol dalam Formulasi SNEDDS Mengkudu Menggunakan Asam Oleat Sebagai Fase Minyak, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Anonim, 2017, Design Expert, diakses pada 30 Januari 2017 <http://www.nwasoft.com/desexp.htm/>
- Ansel, H., Allen, L., Popovich, N., 2011, *Ansel's Pharmaceutical Dosage Forms and Drug Delivery System*, 9th edition, pp 398, Lippincott Williams & Wilkins, Baltimore.
- Armas, L.G., Hollis, B.W., Heaney, R.P., 2004, Vitamin D2 is much less effective than vitamin D3 in humans. *Journal of Clinical Endocrinology and Metabolism*, **89**(11):5387-91.
- Autier, P., Boniol, M., Pizot, C., Mullie, P., 2014, Vitamin D status and health: a systematic review, *The Lancet Diabetes and Endocrinology*, **2**(1):76-89.
- Balakrishnan, P., Lee, B.J., Oh, D.H., Kim, J.O., Lee, Y.I., Kim, D.D., dkk., 2009, Enhanced Oral Bioavailability of Coenzyme Q10 by Self-emulsifying Drug Delivery System, *International Journal of pharmaceuticals*, **374**, 66-72.
- Balakumar, K., Raghavan, C. V., Selvan, N. T., Prasad R. H., dan Abdu, S., 2013, Self nanoemulsifying drug delivery system (SNEDDS) of Rosuvastatin Calcium : Design, Formulation, Bioavailability and Pharmacokinetic Evaluation, *Colloids. Surf. B : Biointerfaces*, 112, 337-343.
- Bali, V., Ali, M., dan Ali, J., 2011, Nanocarrier for the Enhanced Bioavailability of a Cardiovascular Agent : In Vitro, Pharmacodynamic, Pharmacokinetic, and Stability Assessment, *International Journal of Pharmaceuticals*, **403** (1), 46-56.

- Bertone-Johnson, E.R., Chen, W.Y., Holick, M.F., Hollis, B.W., Colditz, G.A., Willet, W.C., *et al.* 2005, Plasma 25-hydroxyvitamin D and 1,25-dihydroxyvitamin D and risk of breast cancer. *Cancer Epidemiol Biomarkers and Prevention*, 14:1991-1997.
- Bharathi, P., Jasinth, D., Priyanka, C., Lakshmi, B., Madhavi, B., Swathi, T., 2013, A Review : Self Emulsifying Drug Delivery System, *International Journal of Research Pharmaceutical Nano Sciences*, **2** (2), 203-212.
- Biradar, S., Dhumal, R., Paradkar, A., 2009, Rheological Investigation of Self-emulsification Process: Effect of Co-surfactant, *Journal of Pharmacy and Pharmaceutical Sciences*, **12** (2), 164-174.
- Bouchemal, K., Briancon, S., Perrier, E., Fessi, H., 2004, Nano-emulsion formulation using spontaneous emulsification : solvent, oil and surfactant, *International Journal of Pharmaceutics*, 280 (2004), 241-251.
- Cayman, 2017, Safety Data Sheet Polysorbate 20, <https://www.caymanchem.com/msds/583151m.pdf>, 13 Februari 2017.
- Cooke, N.E., & Haddad, J.G., 1989, Vitamin D Binding Protein (Gc-globulin). *Endocrine reviews* **10**:294-307.
- Costa, J, A., Lucas, E, F., Queiros, Y. G. C., dan Mansur, C. R. E., 2012, Evaluation of Nanoemulsions in The Cleaning of Polymeric Resins, *Colloids and Surfaces A : Physicochemical and Engineering Aspects*, 415, 112-118.
- Cui, S.X., Nie, S.F., Li, L., Wang, C.G., Sun, J.P., 2009, Preparation and Evaluation of Self-microemulsifying Drug Delivery System Contaning Vinpocetine, *Drug Development and Industrial Pharmacy*, **35**, 608-611.
- Date, A., Desai, N., Dixit, R., dan Nagarsenker, M., 2010, Self-Nanoemulsifying Drug Delivery systems: Formulation Insights, Applications and Advances, *Nanomedicine*, **5**(10), 1595-1616.
- Depkes RI, 1995, *Farmakope Indonesia* Edisi IV, Departemen Kesehatan Republik Indonesia, Jakarta.
- Eid , A. M., El-Enhassy, Y. S. R., Aziz, R., dan Elmarzughi, N. A., 2014, The Preparation an Evaluation of Self-Nanoemulsifying System Containing Swietenia Oil and an Examination of its Anti-Inflammatory Effects, *International Journal of Nanomedicine*, 9, 4685-4695.

- Elsheikh, M.A., Elnaggar, Y. S. R., Gohar, E. Y., dan Abdullah, O. Y., 2012, Nanoemulsions Liquid Preconcentrates for Raloxifene Hydrochloride Optimization and In Vivo Appraisal, *International Journal of Nanomedicine*, **7**:3787-3802.
- Fathirnadiva, J., 2015, Formulasi SNEDDS (Self-Nano Emulsifying Drug Delivery System) Ekstrak Akar Purwoceng Gunung dengan Asam Oleat, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- FDA, 2017, Food Additive Status List, <http://www.fda.gov/food/ingredientspackaginglabeling/foodadditivesingredients/ucm091048.htm>, 16 Februari 2017.
- Garland, C., Comstock, G., Garland, F., Helsing, K., Shaw, E., Gorham, E., 1989, Serum 25-hydroxyvitamin D and colon cancer: eight year prospective study. *Lancet*. 2:1176-1178.
- Gaumet, M., Vargas A., Gurny, R., Delie, F., 2007, Nanoparticles for drug delivery system: The Need for precision in reporting particle size parameters, *Europa journal of pharmaceutis and biopharmaceutics*, **69** (2008), 1-9.
- Gilaberte, Y., Aguilera, J., Carrascosa, J. M., Figueroa, F. L., Romani de Gabriel, J., Nagore, E., 2011. Vitamin D: Evidence and controversies. *Actas Dermosifiliográficas* **102**(8):572-88.
- Gupta, S., Chavan, S., dan Sawant, K. K., 2011, Self-Nanoemulsifying Drug Delivery System for Adefovir Dipivoxil: Design, Characterization, in Vitro and ex Vivo Evaluation, *Physicochemical and Engineering Aspects*, **392**, 145-155.
- Gursoy, R.N. dan Benita, S., 2004, Self-emulsifying Drug Delivery Systems (SEDDS) for Improved Oral Delivery of Lipophilic Drugs, *Biomed Pharmacother*, **58**(3), 173-182.
- Han, J., Sun, M., Guo, X., Li, Z., Yang, J., Zhang, Y., 2011, Design, Preparation, and In Vitro Evaluation of Paclitaxel-loaded Self-nanoemulsifying Drug Delivery System, *Asian Journal of Pharmaceutical Sciences*, **6** (1), 18-25.
- Harmita, 2004, Petunjuk Pelaksanaan Validasi Metode dan Cara Perhitungannya, *Majalah Ilmu Kefarmasian*, **1**, 117-135.
- Henry, H.L., 2011, Regulation of Vitamin D metabolism. *Best Pracicet & Research Clinical Endocrinol & Metabolism* **25**:531-541.

- Holick M. F., 1996, Vitamin D : Photobiology, metabolism, mechanism of action, and clinical application. In: *Favus MJ, ed. Primer on the metabolic Bone Diseases and Disorders of mineral metabolism, 3rd edition*. Philadelphia, PA: Lippincott-Raven.
- Huang, Y. H., Zhang, S. H., Zhen, R. X., Xu, X. D., dan Zhen, Y. S., 2004, Asiaticoside inducing Apoptosis of Tumor Cells and Enhancing Anti-Tumor Activity of Vincristine, *AiZheng*, 23, 1599-1604.
- Itoh, K., Tozuka, Y., Oguchi T., dkk., 2002, Improvement of physicochemical properties of N-4472 part I formulation design by using self-micro emulsifying system, *International Journal of Pharmaceutics*, **238**, 153-160.
- Kurakula, M., & Miryala, V., 2013, Self-nano Emulsifying Drug Delivery System (SNEDDS) for Oral Delivery of Atorvastatin Formulation and Bioavailability Studies, *Journal of Drug Delivery and Therapeutics.*, **3** (3), 131-142.
- Machlin, L.J., 1984, Handbook of Vitamins : Nutritional, Biochemical and Clinical aspects., Departement of Vitamins and Clinical Nutrition, New Jersey.
- Mahmoud, H., Al-Suwayeh, S., dan Elkadi, S., 2013, Design and Optimization of Self-Nanoemulsifying Drug Delivery System of Simvastatin Aiming Dissolution Enhancement, *African Journal of Pharmacy and Pharmacology*, **7** (22), 1482-1483.
- Makadia, H. A., Bhatt, A. Y., Parmar, R. B., Paun, J. S., dan Tank, H. M., 2013, Self-Nanoemulsifying Drug Delivery System (SNEDDS): Future Aspects, *Asian Journal of Pharmaceutical Research*, **3** (1), 21-27.
- Martin, A., Bustamante, P., dan Chun A. H. C., 1993, *Physical Pharmacy : Physical Chemical principles in the Pharmaceutical Sciences*, 4th Edition, Lea and Febiger, Philadelphia.
- Matsuoka L.Y., Wortsman, J., Haddad, J.G., Hollis, B.W., 1992, Elevation of blood vitamin D levels does not impede the release of vitamin D from the skin metabolism, *Metabolism Clinical and Experimental*, **41** (11) :1257-1260
- Miller, J. N., dan Miller, J.C., 2005 *Statistics and Chemometrics for Analytical Chemistry*, 5th edition, pp 107-141, Pearson Education Limited, Essex.

- Naz, Z., dan Ahmad, F.J., 2015, Curcumin-loaded colloidal carrier system : fourmulation optimization, mechanistic insight, ex vivo and in vivo evaluation., *International Journal of Nanomedicine*, **10** : 4295
- Nazzal, S., Smalyukh, I. I., Lavrentovich, O. D., dan Khan, M. A., 2002, Preparation and In vitro Characterization of An Eutectic Based Semisolid Self-Nanoemulsifying Drug Delivery System of Ubiquinone : Mechanism and Progress of Emulsion Formation, *International Journal of Pharmaceutics*, **235**, 247-265.
- NIST, 2017, Oleic Acid, <http://webbook.nist.gov/cgi/cbook.cgi?ID=C112801&Mask=4>, 26 Januari 2017.
- Parmar, N., Singla, N., Amin, S., dan Kohli, K., 2011, Study of cosurfactant effect of Nanoemulsifying area and Development of Lecarnidipine Loaded (SNEDDS) Self-Nanoemulsifying Drug Delivery System, *Colloids. Surf. B: Biointerfaces*, **86**, 327-338.
- Patel, N. D., Patel, K. V., Panchai, L, A., Shukla, A. K. dan Shelat, P. K., 2011, An Emerging Technique for Poorly Soluble Drugs: Self Emulsifying Drug Delivery System, *International Journal of Pharmaceutical and Biological Research*, **2** (2), 621-629.
- Pol, A., Patel, P., Hedge, D., 2013, Peppermint Oil Based Drug Delivery System of Aceclofenac with Improved Anti-Inflammatory Activity and Reduced Ulcerogenecity, *International Journal of Pharma Bioscience and Technology*, **1**(2), 89-101.
- Reddy, M. S., dan Sowjanya, N., 2015, Formulation and in-vitro characterization of Solid Self Nanoemulsifying Drug Delivery System (s-SNEDDS) of Simvastatin, *Journal of Pharmaceutical Science Research*, **7** : 40-48.
- Rowe, C.R., Sheskey, P.J., & Quinn, M.E., (ed), 2009, *Handbook of Pharmaceutical Excipients* 6th ed., Pharmaceutical Press, London.
- Sagar, K., Kendre, P., Pande, V., dan Chaundari, V., 2014, Design, Development and Characterization of SelfNanoemulsifying Drug Delivery System (SNEDDS) of Nateglindine, *WJPNSS*, **3**, 794-811.
- Salvo, P., Smajda, R., Dini, V., Saxby, C., Voirin, G., Romanelli, M., dkk., 2016. A D-Optimal design to Model the Performances of Dressings and Devices for Negative Pressure Wound Therapy. *Journal of Tissue Viability*, **10**, 1016.

- Sapra, K., Sapra, A., Singh, S. K., dan Kakkar, S., 2012, Self-Emulsifying Drug Delivery System: A Tool in Solubility Enhancement of Poorly Soluble Drugs, *International Journal of Pharmaceutical Sciences.*, **2** (3), 314, 317-318, 320.
- Sciencelab, 2017, Material Safety Data Sheet Oleic Acid MSDS, <http://www.sciencelab.com/msds.php?msdsId=9927682>, 26 Januari 2017.
- Shafiq-un-Nabi, S., Shakeel, F., Talegaonkar, S., Ali, J., Baboota, S., Ahuja, A., *et al.*, 2007, Formulation Development and Optimization Using Nanoemulsion Technique: A Technical Note, *AAPS PharmSciTech*, 8(2), Article 28.
- Sigma, 2017, Tween 20 Product Information, [http://www.sigmaaldrich.com/content/dam/sigma-aldrich/docs/Sigma/Product Information Sheet/1/p5927pis.pdf](http://www.sigmaaldrich.com/content/dam/sigma-aldrich/docs/Sigma/Product%20Information%20Sheet/1/p5927pis.pdf), 30 Januari 2017.
- Singh, B. dan Lillard, J. W., 2009, Nanoparticle Based Targeted Drug Delivery, *Experimental and Molecular Pathology*, **86**(3), 215-223.
- Surya, E.R., 2014, Pembuatan S-SNEDDS (Solid Self-Nanoemulsifying Drug Delivery System) Ketoprofen Menggunakan Asam Oleat sebagai Fase Minyak, Tween 20 sebagai Surfaktan, dan Propilen Glikol sebagai Kosurfaktan, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Syamsuni, H., 2006, *Farmasetika Dasar dan Hitungan Farmasi*, 128, EGC, Jakarta.
- Thakur, A., Walia M. K., dan Kumar, S. L. H., 2013, Nanoemulsion in Enhancement of Bioavailability of Poorly Soluble Drugs : A Review, *Pharmacophore.*, **4** (1), 15-19.
- U.S HHS, 1997, *Toxicological Profile for Propylene Glycol*, U.S Departement of Health and Human Services, USA.
- Webb, A.R., Kline, L., and Holick, M.F. (1988). Influence of season and latitude on the cutaneous synthesis of vitamin D3: Exposure to winter sunlight in Boston and Edmonton will not promote vitamin D3 synthesis in human skin. *Journal of Clinical Endocrinology Metabolism*, **67**, 373–378.
- Win, K., Feng, S., 2004, Effects of particle size and surface coating on cellular uptake of polymeric nanoparticles for oral delivery of anticancer drugs, *Biomaterials*, 26 (2005), 2713-2722.

- Woo, J.S., Song, Y.K., Hong, J.Y., Lim, S.J., Kim, C.K., 2008, Reduced Food Effect and Enhanced Bioavailability of a Self-micro Emulsifying Formulation of Itraconazole in Healthy Volunteers, *European Journal of Pharmaceutical Sciences*, **33**, 159-165.
- Yasser, E. M., Nazzal, S., Nile, M.K., 2006. D-Optimal Mixture Design: Optimization of Ternary Matrix Blends For Controlled Zero-Order Drug Release From Oral Dosage Form, *Drug Delivery and Industrial Pharmacy*, **32**, 1208.
- Yeom, D. W., Song, Y. S., Kim, S. R., Lee, S. G., Kang, M. H., Lee, S., Choi, Y. W., 2015, Development and optimization of a self-microemulsifying drug delivery system for atorvastatin calcium by using D-optimal mixture design, *international Journal of Nanomedicine*, 10, 3866-3875.
- Zhao, Y., Wang, C., Chow, A., Ren, K., Gong, T., Zhang, Z., dkk., 2009, Self-nanoemulsifying drug delivery system (SNEDDS) for oral delivery of Zedoary essential oil : Formulation and bioavailability studies, *international Journal of Pharmaceutical*, 383 (2010), 170-177.