

## Daftar Pustaka

- Ahmad, A., Husain, A., Mujeeb, M., Khan, S. A., Najmi, A. K., Siddique, N. A., et al., 2013, A Review on Therapeutic Potential of *Nigella sativa*: A Miracle Herb, *Asian Pacific journal of tropical biomedicine*, 3(5), 337-352.
- ALHaj, N. A., Shamsudin, M. N., Alipiah, N. M., Zamri, H. F., Bustamam, A., Ibrahim, S., et al., 2010, Characterization of *Nigella sativa* L. Essential Oil-loaded Solid Lipid Nanoparticles, *American Journal of Pharmacology and Toxicology*, 5(1), 52.
- Aluyor, E. O., Ozigagu, C. E., Oboh, O. I., & Aluyor, P., 2009, Chromatographic Analysis of Vegetable Oils: A review, *Scientific Research and Essay*, 4(4), 191-197.
- Azeem, A., Rizwan, M., Ahmad, F. J., Iqbal, Z., Khar, R. K., Aqil, M. A., et al., 2009, Nanoemulsion Components Screening and Selection: a Technical Note, *American Association of Pharmaceutical Scientists Pharmaceutical Science Technology*, 10(1), 69-76.
- Balakumar, K., Raghavan, C. V., Selvan, N. T., & Rahman, S. H., 2013, Self Emulsifying Drug Delivery System: Optimization and its Prototype for Various Compositions of Oils, Surfactants and Co-surfactants, *Journal of Pharmacy Research*, 6(5), 510-514.
- Bali, V., Ali, M., & Ali, J., 2011, Nanocarrier for the Enhanced Bioavailability of a Cardiovascular Agent: In vitro, Pharmacodynamic, Pharmacokinetic and Stability Assessment, *International Journal of Pharmaceutics*, 403(1), 46-56.
- Chime, S. A., Attama, A. A., Kenekwue, F. C., Umeyor, E. C., & Onunkwo, G. C., 2013, Formulation, In vitro and In vivo Characterisation of Diclofenac potassium Sustained Release Tablets Based on Solidified Reverse Micellar Solution (SRMS), *British Journal of Pharmaceutical Research*, 3(1), 90-107.
- Chime, S. A., Kenekwue, F. C., & Attama, A. A., 2014, Nanoemulsions—Advances in Formulation, Characterization and Applications in Drug Delivery.
- Costa, Josane A., Lucas, Elizabete F., Queiros, Yure G.C., & Mansur, Claudia R.E., 2012, Evaluation of Nanoemulsions in the Cleaning of Polymeric Resins, *Colloids and Surface A: Physicochemical Engineering Aspects*, 415, 112-118

- Darakhshan, S., Pour, A. B., Colagar, A. H., & Sisakhtnezhad, S., 2015, Thymoquinone and its Therapeutic Potentials, *Pharmacological Research*, 138-158.
- Dash, R. N., Mohammed, H., Humaira, T., & Ramesh, D., 2015, Design, Optimization and Evaluation of Glipizide Solid Self-Nanoemulsifying Drug Delivery for Enhanced Solubility and Dissolution, *Saudi Pharmaceutical Journal*.
- Date, A.A., Desai, N., Dixit, R., & Nagarsenker, M., 2010, Self-Nanoemulsifying Drug Delivery Systems: Formulation Insights, Applications and Advances, *Nanomed.* 5, 1595–1616.
- Debnath, S., Satyanarayana, & Kumar, G. V., 2011, Nanoemulsion-A Method to Improve The Solubility of Lipophilic Drugs, *Pharmanest.*, 2 (2-3), 72-76.
- Depkes RI, 1995, *Farmakope Indonesia* Edisi IV, Departemen Kesehatan Republik Indonesia, Jakarta.
- Depkes RI, 1979, *Materia Medika Indonesia*, Jilid III, Departemen Kesehatan Republik Indonesia, Jakarta.
- Depkes RI, 1995, *Materia Medika Indonesia*, Jilid VI, Departemen Kesehatan Republik Indonesia, Jakarta.
- Dewick, P. M., 2002, *Medicinal Natural Products: A Biosynthetic Approach*, John Wiley & Sons.
- Diba, R. F., 2014, Kajian In Vitro Produk Enkapsulasi Nanoemulsi Ekstrak Jintan Hitam (*Nigella sativa*), *Thesis*, Institut Pertanian Bogor.
- El-Tahir, K. E. D. H., & Bakeet, D. M., 2006, The Black Seed *Nigella sativa* Linnaeus-A mine for Multi Cures: A Plea for Urgent Clinical Evaluation of its Volatile Oil, *Journal of Taibah University Medical Sciences*, 1(1), 1-19.
- Fathoroni, A., 2014, Formulasi SNEDDS Simvastatin menggunakan Surfaktan Tween 80 dan Ko-surfaktan PEG 400, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada.
- Fernandez, P., André, V., Rieger, & J., Kühnle, A., 2004, Nano-emulsion Formation by Emulsion Phase Inversion, *Colloids and Surface A: Physicochemical Engineering Aspects*, 251, 53–58.
- Gali-Muhtasib, H., Diab-Assaf, M., Boltze, C. A., Al-Hmaira, J., Hartig, R., Roessner, A., et al., 2006, Thymoquinone Extracted from Black Seed Triggers Apoptotic Cell Death in Human Colorectal Cancer Cells via a p53-

dependent Mechanism, *International Journal of Oncology*, 25, 857-866.

- Gupta, P. K., Ajay, K., Pallavi, S., & Sanjiv, G., 2010, Pharmaceutical Nanotechnology Novel Nanoemulsion-high Energy Emulsification Preparation, Evaluation and Application. *The Pharma Research*, 3, 117-138.
- Gupta, S., Chavan, S., & Sawan, K. K., 2011, Self-Nanoemulsifying Drug Delivery System for Adefovir Dipivoxil : Design, Characterization, in vitro and ex Vivo Evaluation, *Colloids and Surfaces A: Physicochemical and Engineering Aspect*, 392, 145-155.
- Gursoy, R.N., & Benita S., 2004, Self-emulsifying Drug Delivery System (SEDSS) for Improved Oral Delivery of Lipophilic Drugs, *Biomedical Pharmacotherapy*, 58, 173-182.
- Hait, S. K., & Moulik, S. P., 2002, Interfacial Composition and Thermodynamics of Formation of Water/Isopropyl Myristate Water-in-oil Microemulsions Stabilized by Butan-1-ol and Surfactants like Cetyl Pyridinium Chloride, Cetyl Trimethyl Ammonium Bromide, and Sodium Dodecyl Sulfate, *Langmuir*, 18(18), 6736-6744.
- Hajhashemi, V., Ghannadi, A., & Jafarabadi, H., 2004, Black Cumin Seed Essential Oil, as a Potent Analgesic and Antiinflammatory Drug, *Phytotherapy Research*, 18(3), 195-199.
- 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.
- Huang, Y. B., Tsai, Y. H., Yang, W. C., Chang, J. S., Wu, P. C., & Takayama, K., 2004, Once-Daily Propranolol Extended-Release Tablet Dosage Form: Formulation Design and In Vitro/in Vivo Investigation, *European Journal of Pharmaceutics and Biopharmaceutics*, 58, 607-614.
- Ishtiaq, S., Ashraf, M., Hayat, M.H., & Asrar, M., 2013, Phytochemical Analysis of *Nigella sativa* and its Antibacterial Activity against Clinical Isolates Identified by Ribotyping, *International Journal of Agriculture & Biology*, 15, 1151-1156.
- Joshi, R.P., Negi, G., Kumar, A., Pawar, Y. B., Munjal, B., Bansal, A. K., et al., 2013, SNEDDS Curcumin Formulation Leads to Enhanced Protection from Pain and Functional Deficits Associated with Diabetic Neuropathy: An Insight into its Mechanism for Neuroprotection. *Nanomedicine: Nanotechnology, Biology and Medicine*, 9, 776-785.

- Kawakami, K., Yoshikawa, T., Moroto, Y., Kanaoka, E., Takahashi, K., Nishihara, Y., et al., 2006, Microemulsion Formulation for Enhanced Absorption of Poorly Soluble Drugs, I, Prescription Design, *Journal Control Release*, 81, 75-82.
- Ketaren, S., 2005, *Minyak dan Lemak Pangan*, UI Press, Jakarta.
- Kommuru, T.R., Gurley, B., Khan, M.A., & Reddy, I.K., 2001, Self-Emulsifying Drug Delivery Systems (SEDDS) of Coenzyme Q10: Formulation Development and Bioavailability Assessment, *International Journal of Pharmaceutics*, 212, 233-246.
- Kuentz, M., 2012, Lipid-based Formulations for Oral Delivery of Lipophilic Drugs. *Drug Discovery Today: Technologies*, 9(2), 97-104.
- Kumar, A., Sharma, S., & Kamble, R., 2010, Self-Emulsifying Drug Delivery System (SEDDS): Future Aspects, *International Journal of Pharmacy and Pharmaceutical Sciences*, 2(Suppl 4), 713.
- Kyatanwar, A. U., Jadhav, K. R., & Kadam, V. J., 2010, Self Micro-Emulsifying Drug Delivery System (SMEDDS): Review, *Journal of Pharmacy Research*, 3(1).
- Li, P., Ghosh, A., Wagner, R. F., Krill, S., Joshi, Y. M., & Serajuddin, A. T., 2005, Effect of Combined Use of Nonionic Surfactant on Formation of Oil-in-water Microemulsions, *International Journal of Pharmaceutics*, 288(1), 27-34.
- Lipinski, C. A., 2002, Poor Aqueous Solubility-an Industry Wide Problem in ADME Screening, *American Pharmaceutical Review*, 5, 82-85.
- Lovelyn C., & Attama A. A., 2011, Current State of Nanoemulsion in Drug Delivery, *Journal of Biomaterial and Nanobiotechnology*, 215, 626-639.
- Mahmoud, H., Al-Suwayeh, S., & Elkadi, S., 2013, Design and Optimazation of Self-Nanoemulsifying Drug Delivery System (SNEDDS): Future Aspects, *Asian Journal of Pharmaceutical Research*, 3(1), 21-24.
- Makadia, H. A., Bhatt, A.Y., Parmar, R. B., Paun, J. S., & Tank, H.M., 2013, Self-Nano Emulsifying Drug Delivery System (SNEDDS): Future Aspect, *Asian Journal of Pharmaceutical Research*, 3(1), 21-27.
- Martien, R., Loretz, B., & Schnurch, A. B., 2006, Oral Gene Delivery: Design of Polymeric Carrier Systems Shielding toward Intestinal Enzymatic Attack, *Biopolimers.*, 83, 327-336.

- Matsaridou, I., Barmapalexis, P., Salis, A., & Nikolakakis, I., 2012, The Influence of Surfactant HLB and Oil/Surfactant Ratio on the Formation and Properties of Self-emulsifying Pellets and Microemulsion Reconstitution, *American Association of Pharmaceutical Scientists Pharmaceutical Science Technology*, 13(4), 1319-1330.
- Nallamuthu, I., Parthasarathi, A., & Khanum, F., 2013, Thymoquinone-loaded PLGA Nanoparticles: Antioxidant and Anti-microbial Properties, *International Current Pharmaceutical Journal*, 2(12), 202-207.
- Nazzal, S., Smalyukh, I. I., Lavrentovich, O. D., & Khan, M. A., 2002, Preparation and In vitro Characterization of a Eutectic Based Semisolid Self-nanoemulsified Drug Delivery System (SNEDDS) of Ubiquinone: Mechanism and Progress of Emulsion Formation, *International journal of pharmaceutics*, 235(1), 247-265.
- Nielsen, F. S., Petersen, K. B., & Müllertz, A., 2008, Bioavailability of Probuco from Lipid and Surfactant Based Formulations in Minipigs: Influence of Droplet Size and Dietary State, *European Journal of Pharmaceutics and Biopharmaceutics*, 69(2), 553-562.
- Obitte, N. C., Ofokansi, K. C., Nzekwe, I. T., Esimone, C. O., & Okoye, I. E., 2011, Self-nanoemulsifying Drug Delivery Systems Based on Melon Oil and its Admixture with a Homolipid from *Bos indicus* for the Delivery of Indomethacin, *Tropical Journal of Pharmaceutical Research*, 10 (3), 300.
- Odeh, F., Al-Jaber, H., & Khater, D., 2014, Nanoflora—How Nanotechnology Enhanced the Use of Active Phytochemicals.
- Parhizkar, S., Latiff, L.A., & Rahman, S. A., 2011, Comparison of the Supercritical Fluid Extraction with Conventional Extraction Method to Determine the Fatty Acid Composition of Black Cumin Seeds, *Scientific Research Essays*, 6(34), 6817-6820.
- Patel, M. J., Patel, N., Patel, R., dan Patel, R. P., 2010, Formulation and Evaluation of Self-Microemulsifying Drug Delivery System of lovastatin, *Asian Journal of Pharmaceutical Sciences*, 5(6), 266-275.
- Pouton, C. W., 2006, Formulation of Poorly Soluble Water-Soluble Drugs for Oral Administration: Physicochemical and Physiological Issues and the Lipid Formulation Classification System, *European Journal of Pharmaceutical Sciences*, 29(3-4), 278-287.
- Pouton, C. W., & Porter, C.J., 2008, Formulation of Lipid-based Delivery Systems for Oral Administration: Materials, Methods and Strategies, *Advanced Drug Delivery Review*, 60(6), 625-637.

- Prabawati, S., 2005, Minyak Kelapa Murni: Harapan Nilai Tambah yang Menjanjikan, Balai Besar Penelitian Pascapanen Pertanian Bogor, <http://www.pustaka-deptan.go.id/publikasi/wr272051.pdf>
- Pramudita, S., 2014, Formulasi S-SNEDDS (Solid Self-Nano Emulsifying Drug Delivery System) Ketoprofen menggunakan Virgin Coconut Oil, Tween 80, Tween 20, dan Polietilen Glikol 400, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada Yogyakarta.
- Ravindran, J., Nair, H. B., Sung, B., Prasad, S., Tekmal, R. R., & Aggarwal, B. B., 2010, Thymoquinone Poly (Lactide-co-glycolide) Nanoparticles Exhibit Enhanced Anti-proliferative, Anti-inflammatory, and Chemosensitization Potential. *Biochemical pharmacology*, 79(11), 1640-1647.
- Riset dan Teknologi Indonesia, 2002, *Inventaris Tanaman Obat Indonesia Jilid 1-5 Seri RISTEK*, Kementrian Riset dan Teknologi, Jakarta.
- Rowe, R.C., Sheskey, P.J., & Quinn, M.E., 2009, *Handbook of Pharmaceutical Excipients*, Sixth Edition, Pharmaceutical Press, London.
- Salmani, J. M., Asghar, S., Lv, H., & Zhou, J., 2014, Aqueous Solubility and Degradation Kinetics of the Phytochemical Anticancer Thymoquinone; Probing the Effects of Solvents, pH and Light, *Molecules*, 19, 5925-5939.
- Sapra, K., Sapra, A., Singh, S. K., & Kakkar, S., 2012, Self Emulsifying Drug Delivery System: A Tool in Solubility Enhancement of Poorly Soluble Drugs. *Indo global journal of pharmaceutical sciences*, 2(3).
- Sharma, N. K., Ahirwar, D., Gupta, S., Jhade, D., 2011, Pharmacognostic Standardization, Physico and Phytochemical Evaluation of *Nigella sativa* Linn. Seed, *International Journal of Pharmaceutical Sciences and Research*, 2(3), 713-718.
- Singh, A., Ahmad, I., Akhter, S., Ahmad, M. Z., Khan, Z., & Ahmad, F. J., 2012, Thymoquinone: Major Molecular Targets, Prominent Pharmacological Actions and Drug Delivery Concerns, *Current Bioactive Compounds*, 8(3), 1-11.
- Singh, B., Bandopadhyay, S., Kapil, R., Singh, R., & Katare, O. P., 2009, Self-Emulsifying Drug Delivery System (SNEDDS); Formulation Development, Characterization, and Application, *Critical Reviews in Therapeutics Drug Carrier Systems*, 26 (5), 427, 431, 444-445, 451.
- Sole, I., Maeestro, A., Gonzalez, C., Solans, C., & Gutierrez, J.M., 2008, Influence of The Phase Behavior on The Properties of Ionic Nanoemulsions Prepared



by The Phase Inversion Composition Method, *Journal Colloid Interface Science*, 327, 433-439.

- Suhendi, A., Nurcahyanti, M., & Sutrisna, E. M., 2011, Aktivitas Antihiperurisemia Ekstrak Air Jinten Hitam (*Coleus ambonicus* Lour) pada Mencit Jantan Galur Balb-c dan Standardisasinya. *Majalah Farmasi Indonesia*, 22(2), 77-84.
- Sultan, M. T., Butt, M. S., Anjum, F. M., Jamil, A., Akhtar, S., & Nasir, M., 2009, Nutritional Profile of Indigenous Cultivar of Black Cumin Seeds and Antioxidant Potential of its Fixed and Essential Oil, *Pakistan Journal of Botany*, 41(3), 1321-1330.
- Talegaonkar, S., Azeem, A., Ahmad, F. J., Khar, R. K., Pathan, S. A., & Khan, Z. I., 2008, Microemulsions: A Novel Approach to Enhanced Drug Delivery, *Recent Patents on Drug Delivery & Formulation*, 2(3), 238-257.
- Tembhurne, S. V., Feroz, S., More, B. H., & Sakarkar, D. M., 2014, A Review on Therapeutic Potential of *Nigella sativa* (kalonji) Seeds, *Journal of Medicinal Plants Research*, 8(3), 167-177.
- Thakur, A., Walia M. K., & Kumar, S. L. H., 2013, Nanoemulsion in Enhancement of Bioavailability of Poorly Soluble Drugs : A Review, *Pharmacophore An International Research Journal*, 4(1), 15-19.
- Tubesha, Z., Imam, M. U., Mahmud, R., & Ismail, M, 2013, Study on the Potential Toxicity of a Thymoquinone-rich Fraction Nanoemulsion in Sprague Dawley Rats. *Molecules*, 18(7), 7460-7472.
- Tuminah, S., 2009, Efek Asam Lemak Jenuh dan Asam Lemak Tak Jenuh" Trans" Terhadap Kesehatan. *Media Penelitian dan Pengembangan Kesehatan*.
- Wijayanti, F. E., 2008. Pemanfaatan Minyak Jelantah sebagai Sumber Bahan Baku Produksi Metil Ester, *Skripsi*, FMIPA Universitas Indonesia.
- Yadav, P., Kumar, V., Singh, U., Bhat, H., & Mazumder, B., 2012, Physiochemical Characterization and In Vitro Dissolution Studies of Solid Dispersion of Ketoprofen with PVP K30 and D-mannitol, *Saudi Pharmaceutical Journal*, 21, 77-84.
- Yu, L., Perry, J.W., & Zhou, K., 2005, Oils from Herbs, Spices and Fruit Seeds, *Bailey's Industrial Oil & Fat Products*, 6<sup>th</sup> Ed, Wiley Koboken, 233-258.