

DAFTAR PUSTAKA

- Aisiyah, S., Harjanti, R., & Nopiyanti, V. (2019). Pengaruh Panjang Rantai Karbon Lipid Padat terhadap Karakteristik Nanostructured Lipid Carrier Resveratrol. *JPSCR : Journal of Pharmaceutical Science and Clinical Research*, 4(2), 69. <https://doi.org/10.20961/jpscr.v4i2.34408>
- Banerjee, P., Geng, T., Mahanty, A., Li, T., Zong, L., & Wang, B. (2019). Integrating the drug, disulfiram into the vitamin E-TPGS-modified PEGylated nanostructured lipid carriers to synergize its repurposing for anti-cancer therapy of solid tumors. *International Journal of Pharmaceutics*, 557(January), 374–389. <https://doi.org/10.1016/j.ijpharm.2018.12.051>
- Benson, H. A. E., Roberts, M. S., Leite-Silva, V. R., & Walters, K. A. (2019). *Cosmetic Formulation Principles and Practice*. Florida: CRC Press
- Binic, I., Lazarevic, V., Ljubenovic, M., Mojsa, J., & Sokolovic, D. (2013). Skin ageing: Natural weapons and strategies. *Evidence-Based Complementary and Alternative Medicine*, 2013. <https://doi.org/10.1155/2013/827248>
- Bragazzi, N. L., Sellami, M., Salem, I., Conic, R., Kimak, M., Pigatto, P. D. M., & Damiani, G. (2019). Fasting and its impact on skin anatomy, physiology, and physiopathology: A comprehensive review of the literature. *Nutrients*, 11(2). <https://doi.org/10.3390/nu11020249>
- Brownlow, B., Nagaraj, V. J., Nayel, A., Joshi, M., & Elbayoumi, T. (2015). Development and in Vitro Evaluation of Vitamin E-Enriched Nanoemulsion Vehicles Loaded with Genistein for Chemoprevention Against UVB-Induced Skin Damage. *Journal of Pharmaceutical Sciences*, 104(10), 3510–3523. <https://doi.org/10.1002/jps.24547>
- Calipinar, H., & Ulas, D. (2019). Development of Nanotechnology in the World and Nanotechnology Standards in Turkey. *Procedia Computer Science*, 158, 1011–1018. <https://doi.org/10.1016/j.procs.2019.09.142>
- Depkes RI. (2020). *Farmakope Indonesia Edisi VI*. Jakarta: Depkes RI
- DEVI, R., & AGARWAL, S. (2019). Some Multifunctional Lipid Excipients and Their Pharmaceutical Applications. *International Journal of Pharmacy and Pharmaceutical Sciences*, 11(9), 1–7. <https://doi.org/10.22159/ijpps.2019v11i9.34194>

- Dubey, A., Prabhu, P., & Kamath, J. V. (2012). Nano structured lipid carriers: A novel topical drug delivery system. *International Journal of PharmTech Research*, 4(2), 705–714.
- Evonik. (2015). *TEGO ® Care 450*. May, 1–6.
- Ferreira, K. C. B., Valle, A. B. C. D. S., Paes, C. Q., Tavares, G. D., & Pittella, F. (2021). Nanostructured lipid carriers for the formulation of topical anti-inflammatory nanomedicines based on natural substances. *Pharmaceutics*, 13(9). <https://doi.org/10.3390/pharmaceutics13091454>
- Gu, Y., Yang, M., Tang, X., Wang, T., Yang, D., Zhai, G., & Liu, J. (2018). Lipid nanoparticles loading triptolide for transdermal delivery: Mechanisms of penetration enhancement and transport properties. *Journal of Nanobiotechnology*, 16(1), 1–14. <https://doi.org/10.1186/s12951-018-0389-3>
- Haider, M., Abdin, S. M., Kamal, L., & Orive, G. (2020). Nanostructured lipid carriers for delivery of chemotherapeutics: A review. *Pharmaceutics*, 12(3). <https://doi.org/10.3390/pharmaceutics12030288>
- Jaworska, M., Sikora, E., & Ogonowski, J. (2014). The influence of glicerides oil phase on O/W nanoemulsion formation by pic method. *Periodica Polytechnica Chemical Engineering*, 58(SUPPL), 43–48. <https://doi.org/10.3311/PPch.7299>
- Larsson, S., Jansson, M., & Boholm, Å. (2019). Expert stakeholders' perception of nanotechnology: risk, benefit, knowledge, and regulation. *Journal of Nanoparticle Research*, 21(3). <https://doi.org/10.1007/s11051-019-4498-1>
- Liu, R., Liu, Z., Zhang, C., & Zhang, B. (2012). Nanostructured lipid carriers as novel ophthalmic delivery system for mangiferin: improving in vivo ocular bioavailability. *Journal of pharmaceutical sciences*, 101(10), 3833–3844.
- Morais Diane, J. M., & Burgess, J. (2014). Vitamin e nanoemulsions characterization and analysis. *International Journal of Pharmaceutics*, 465(1–2), 455–463. <https://doi.org/10.1016/j.ijpharm.2014.02.034>
- Müller, R. H., Alexiev, U., Sinambela, P., & Keck, C. M. (2016). Nanostructured lipid carriers (NLC): the second generation of solid lipid nanoparticles. In *Percutaneous penetration enhancers chemical methods in penetration enhancement*. Springer, Berlin, Heidelberg.

- Ng, K. W., & Lau, W. M. (2015). Skin Deep: The Basics of Human Skin Structure and Drug Penetration. In: Dragicevic, N., Maibach, H. (eds) Percutaneous Penetration Enhancers Chemical Methods in Penetration Enhancement. Springer, Berlin, Heidelberg.
- Patel, D., Dasgupta, S., Dey, S., Roja Ramani, Y., Ray, S., & Mazumder, B. (2012). Nanostructured lipid carriers (NLC)-based gel for the topical delivery of aceclofenac: Preparation, characterization, and in vivo evaluation. *Scientia Pharmaceutica*, 80(3), 749–764. <https://doi.org/10.3797/scipharm.1202-12>
- Petruk, G., Giudice, R. Del, Rigano, M. M., & Monti, D. M. (2018). Antioxidants from plants protect against skin photoaging. *Oxidative Medicine and Cellular Longevity*, 2018. <https://doi.org/10.1155/2018/1454936>
- Prabakaran, R., Chenthilnathan, A., & Vikraman, S. (2014). Validation of Simultaneous Determination of Vitamin E Acetate and Vitamin E Acetate in Multivitamin Tablets by RP-HPLC. *International Journal of Pharmaceutical Biological and Chemical Sciences*, January.
- Saeedi, M., Eslamifar, M., Khezri, K., & Dizaj, S. M. (2019). Applications of nanotechnology in drug delivery to the central nervous system. *Biomedicine and Pharmacotherapy*, 111(August 2018), 666–675. <https://doi.org/10.1016/j.biopha.2018.12.133>
- Sharma, A., & Baldi, A. (2018). Nanostructured Lipid Carriers: A Review Journal of Developing Drugs. *Journal of Developing Drugs*, 7(2), 1–12. <https://doi.org/10.4172/2329-6631.10001>
- Sharma, G., Thakur, K., Raza, K., Singh, B., & Katare, O. P. (2017). Nanostructured lipid carriers: A new paradigm in topical delivery for dermal and transdermal applications. *Critical Reviews in Therapeutic Drug Carrier Systems*, 34(4), 355–386. <https://doi.org/10.1615/CritRevTherDrugCarrierSyst.2017019047>
- Shettigar, P., Koland, M., Sindhoor, S. M., & Prabhu, A. (2021). Formulation and Evaluation of Clarithromycin Loaded Nanostructured Lipid Carriers for the Treatment of Acne. *Journal of Pharmaceutical Research International*, 33, 26–38. <https://doi.org/10.9734/jpri/2021/v33i40b32260>

- Shimojo, A. A. M., Fernandes, A. R. V., Ferreira, N. R. E., Sanchez-Lopez, E., Santana, M. H. A., & Souto, E. B. (2019). Evaluation of the influence of process parameters on the properties of resveratrol-loaded NLC using 22 full factorial design. *Antioxidants*, 8(8). <https://doi.org/10.3390/antiox8080272>
- Silva, S., Ferreira, M., Oliveira, A. S., Magalhães, C., Sousa, M. E., Pinto, M., Sousa Lobo, J. M., & Almeida, I. F. (2019). Evolution of the use of antioxidants in anti-ageing cosmetics. *International Journal of Cosmetic Science*, 41(4), 378–386. <https://doi.org/10.1111/ics.12551>
- Soni, K., Rizwanullah, M., & Kohli, K. (2018). Development and optimization of sulforaphane-loaded nanostructured lipid carriers by the Box-Behnken design for improved oral efficacy against cancer: in vitro, ex vivo and in vivo assessments. *Artificial Cells, Nanomedicine and Biotechnology*, 46(sup1), 15–31. <https://doi.org/10.1080/21691401.2017.1408124>
- Sriarumtias, F. F., Tarini, S., & Damayanti, S. (2017). Retinyl Palmitate Nanostructured Lipid Carrier (NLC) Formulation and antioxidant potential test. *Acta Pharmaceutica Indonesia*, 42(1), 25–31.
- Suhaimi, S. H., Hasham, R., & Rosli, N. A. (2015). Akademia Baru Effects of Formulation Parameters on Particle Size and Polydispersity Index of Orthosiphon Stamineus Loaded Nanostructured Lipid Carrier. *Journal of Advanced Research in Applied Sciences and Engineering Technology ISSN*, 1(1), 36–39.
- Tofani, R. P., Sumirtapura, Y. C., & Darijanto, S. T. (2016). Formulation, characterisation, and in vitro skin diffusion of nanostructured lipid carriers for deoxyarbutin compared to a nanoemulsion and conventional cream. *Scientia Pharmaceutica*, 84(4), 634–645. <https://doi.org/10.3390/scipharm84040634>
- Xu, G. D., Zhang, Y. F., Liu, Y. Q., & Zhao, G. Z. (2013). Properties of water-soluble core-materials applied for LRTM. *Advanced Materials Research*, 712–715, 135–138. <https://doi.org/10.4028/www.scientific.net/AMR.712-715.135>
- Yostawonkul, J., Surassmo, S., Iempridee, T., Pimtong, W., Suktham, K., Sajomsang, W., Gonil, P., & Ruktanonchai, U. R. (2017). Surface modification of nanostructure lipid carrier (NLC) by oleoyl-quaternized-chitosan as a mucoadhesive nanocarrier. *Colloids and Surfaces B: Biointerfaces*, 149, 301–311.