

DAFTAR PUSTAKA

- Alhajj, M., Qasem, M., Jar El Nabi, A., & Al-Mufarrej, S. (2019). *High Levels of Chinese Star Anise*.
- Ali, A., Khan, H., & Khan, Z. U. (2018). *Stability Studies and Characterization of Glutathione-Loaded Stability Studies and Characterization of Glutathione-Loaded. July*.
- Aliberti, S., Reyes, L. F., Faverio, P., Sotgiu, G., Dore, S., Rodriguez, A. H., Soni, N. J., Restrepo, M. I., Aruj, P. K., Attorri, S., Barimboim, E., Caeiro, J. P., Garzón, M. I., Cambursano, V., Ceccato, A., Chertcoff, J., Lascar, F., Di Tulio, F., Cordon Díaz, A., ... Labra, L. (2016). Global initiative for meticillin-resistant *Staphylococcus aureus* pneumonia (GLIMP): an international, observational cohort study. *The Lancet Infectious Diseases*, 16(12), 1364–1376. [https://doi.org/10.1016/S1473-3099\(16\)30267-5](https://doi.org/10.1016/S1473-3099(16)30267-5)
- Andriana, N., Lister, I. N. E., Fachrial, E., Ginting, C. N., & Lie, S. (2020). Effectiveness Test of Wound Healing based Virgin Coconut Oil toward Commercial Products on Rabbits. *MECnIT 2020 - International Conference on Mechanical, Electronics, Computer, and Industrial Technology*, 104–107. <https://doi.org/10.1109/MECnIT48290.2020.9166656>
- Azeem, A., Rizwan, M., Ahmad, F. J., Iqbal, Z., Khar, R. K., Aqil, M., & Talegaonkar, S. (2009). Nanoemulsion components screening and selection: A technical note. *AAPS PharmSciTech*, 10(1), 69–76. <https://doi.org/10.1208/s12249-008-9178-x>
- Baboota, S., Shakeel, F., Ahuja, A., Ali, J., & Shafiq, S. (2007). Design, development and evaluation of novel nanoemulsion formulations for transdermal potential of celecoxib. *Acta Pharmaceutica*, 57(3), 315–332. <https://doi.org/10.2478/v10007-007-0025-5>
- Badruddoza, A. Z. M., Gupta, A., Myerson, A. S., Trout, B. L., & Doyle, P. S. (2018). Low Energy Nanoemulsions as Templates for the Formulation of Hydrophobic Drugs. *Advanced Therapeutics*, 1(1), 1–8. <https://doi.org/10.1002/adtp.201700020>
- Bai, J., Wu, Y., Liu, X., Zhong, K., Huang, Y., & Gao, H. (2015). Antibacterial Activity of Shikimic Acid from Pine Needles of *Cedrus deodara* against *Staphylococcus aureus* through Damage to Cell Membrane. 27145–27155. <https://doi.org/10.3390/ijms161126015>
- Batory, M., & Rotsztejn, H. (2021). Shikimic acid in the light of current knowledge. *Journal of Cosmetic Dermatology*, March, 1–5. <https://doi.org/10.1111/jocd.14136>
- Bochkov, D. V., Sysolyatin, S. V., Kalashnikov, A. I., & Surmacheva, I. A. (2012). Shikimic acid: Review of its analytical, isolation, and purification techniques from plant and microbial sources. *Journal of Chemical Biology*, 5(1), 5–17. <https://doi.org/10.1007/s12154-011-0064-8>
- Brooks, G. F., Carroll, K. C., Butel, J. S., & Morse, S. A. (2013). Medical Microbiology, Twenty-Fifth Edition (LANGE Basic Science). *Jawetz, Melnick, & Adelberg's Medical Microbiology*, 782.
- Chambers, E. S., & Vukmanovic-Stejic, M. (2020). Skin barrier immunity and

- ageing. *Immunology*, 160(2), 116–125. <https://doi.org/10.1111/imm.13152>
- Choe, C. S., Schleusener, J., Lademann, J., & Darvin, M. E. (2018). Age related depth profiles of human Stratum Corneum barrier-related molecular parameters by confocal Raman microscopy in vivo. *Mechanisms of Ageing and Development*, 172(March), 6–12. <https://doi.org/10.1016/j.mad.2017.08.011>
- Chukwunonso, Veronica, E., Toyo, B., Chiagozie, P., Amadi, E., Abe, C., Otohinoyi, T., Olunu, D. A., Omotuyi, E., Fakoya, A., & John. (2018). *Methicillin-Resistant Staphylococcus Aureus : A Mini Review*. February, 122–127.
- Craft, K. M., Nguyen, J. M., Berg, L. J., & Townsend, S. D. (2019). *Resistance and the Biofilm Phenotype*. <https://doi.org/10.1039/x0xx00000x>
- Debnath, S., Kumar, G. V., & Satyanarayana, S. V. (2012). Design, development and evaluation of novel nanoemulsion of terbinafine HCl. *Research Journal of Pharmacy and Technology*, 5(10), 1301–1307.
- Dwivedi, A., Agarwal, N., Ray, L., & Tripathi, A. K. (2020). Skin aging & cancer: Ambient UV-R exposure. In *Skin Aging & Cancer: Ambient UV-R Exposure*. <https://doi.org/10.1007/978-981-13-2541-0>
- El-shiekh, R. A. (2021). *In vivo Antibacterial Activity of Star Anise (Illicium verum Hook.) Extract Using Murine MRSA Skin Infection Model in Relation to Its Metabolite Profile*. 33–48.
- Endarini, L. H. (2016). Farmakognosi Dan Fitokimia. *Kementerian Kesehatan RI*.
- Fodor, L. (n.d.). *Aesthetic Applications of Intense Pulsed Light*.
- Hanifah, M., & Jufri, M. (2018). Formulation and stability testing of nanoemulsion lotion containing centella asiatica extract. *Journal of Young Pharmacists*, 10(4), 404–408. <https://doi.org/10.5530/jyp.2018.10.89>
- Hao, X., Huang, Q., Shen, G., Wu, X., Hu, G., & Ban, C. (2015). Separation and Purification of (-)-Shikimic Acid and (-)-Quinic Acid by the Phase Diagrams of the Ternary System of (-)-Shikimic Acid + (-)-Quinic Acid + H₂O and the Quaternary System of (-)-Shikimic Acid + (-)-Quinic Acid + Ethanol ($\phi \sim 50\%$, $\phi \sim 75\%$) + H₂. *Industrial and Engineering Chemistry Research*, 54(27), 6993–6998. <https://doi.org/10.1021/acs.iecr.5b01115>
- Jansen van Rensburg, S., Franken, A., & Du Plessis, J. L. (2019). Measurement of transepidermal water loss, stratum corneum hydration and skin surface pH in occupational settings: A review. *Skin Research and Technology*, 25(5), 595–605. <https://doi.org/10.1111/srt.12711>
- Kale, S. N., & Deore, S. L. (2017). *Emulsion Micro Emulsion and Nano Emulsion : A Review*. 8(1), 39–47.
- Kayser, F. H., Bienz, K. A., & Zinkernagel, R. M. (2005). *Medical Microbiology*. Thieme.
- Kemenkes RI. (2020). Farmakope Indonesia edisi VI. In *Departemen Kesehatan Republik Indonesia*.
- Khalili, H., Najar-Peerayeh, S., Mahrooghi, M., Mansouri, P., & Bakhshi, B. (2021). Methicillin-resistant Staphylococcus aureus colonization of infectious and non-infectious skin and soft tissue lesions in patients in Tehran. *BMC Microbiology*, 21(1), 1–8. <https://doi.org/10.1186/s12866-021-02340-w>

- Kristiani, M., Ramayani, S. L., Yunita, K., & Saputri, M. (2019). *Formulasi dan Uji Aktivitas Nanoemulsi Minyak Atsiri Daun Kemangi (Ocimum basilicum L .) Terhadap Salmonella typhii Nanoemulsion Formulation And Activity Test Of Essential Oil Basil Leaves (Ocimum basilicum L .) Against Salmonella typhii Thypoid fever (. 7 mm, 14–23.*
- Kurniawati, A. (2019). Pengaruh Jenis Pelarut Pada Proses Ekstraksi Bunga Mawar Dengan Metode Maserasi Sebagai Aroma Parfum. *Journal of Creativity Student*, 2(2), 74–83. <http://journal.unnes.ac.id/nju/index.php/jcs>
- Kusumaningrum, I. A., Ashadi, A., & Indriyanti, N. Y. (2017). Scientific Approach and Inquiry Learning Model in the Topic of Buffer Solution: A Content Analysis. *Journal of Physics: Conference Series*, 895(1). <https://doi.org/10.1088/1742-6596/895/1/012042>
- López-Bascón-Bascon, M. A., & Luque de Castro, M. D. (2019). Soxhlet extraction. *Liquid-Phase Extraction*, 327–354. <https://doi.org/10.1016/B978-0-12-816911-7.00011-6>
- Mahdi, Z. H., & Maraie, N. K. (2019). Overview on nanoemulsion as a recently developed approach in drug nanoformulation. *Research Journal of Pharmacy and Technology*, 12(11), 5554–5560. <https://doi.org/10.5958/0974-360X.2019.00963.6>
- Miao, J., Wang, W., Xu, W., Su, J., Li, L., Li, B., Zhang, X., & Xu, Z. (2018). The fingerprint mapping and genotyping systems application on methicillin-resistant *Staphylococcus aureus*. *Microbial Pathogenesis*, 125, 246–251. <https://doi.org/10.1016/j.micpath.2018.09.031>
- Mukhtarini. (2011). Ekstraksi, Pemisahan Senyawa, dan Identifikasi Senyawa Aktif. *Jurnal of Pharmacy*, VII(2), 361.
- Nasr, A., Gardouh, A., & Ghorab, M. (2016). *Novel Solid Self-Nanoemulsifying Drug Delivery System (S-SNEDDS) for Oral Delivery of Olmesartan Medoxomil : Design , Formulation , Pharmacokinetic and Bioavailability Evaluation*. <https://doi.org/10.3390/pharmaceutics8030020>
- Nn, A. (2015). A Review on the Extraction Methods Use in Medicinal Plants, Principle, Strength and Limitation. *Medicinal & Aromatic Plants*, 04(03), 3–8. <https://doi.org/10.4172/2167-0412.1000196>
- Noh, K., Back, H. M., Shin, B. S., & Kang, W. (2020). Pharmacokinetics of shikimic acid following intragastric and intravenous administrations in rats. *Pharmaceutics*, 12(9), 1–8. <https://doi.org/10.3390/pharmaceutics12090824>
- Pagar, K. R., & Darekar, A. B. (2019). Nanoemulsion: A new concept of Delivery System. *Asian Journal of Research in Pharmaceutical Science*, 9(1), 39. <https://doi.org/10.5958/2231-5659.2019.00006.7>
- Patel, R. P., & Joshi, J. R. (2012). An overview on nanoemulsion: a novel approach. *International Journal of Pharmaceutical Sciences and Research*, 3(12), 4640–4650. <http://www.ijpsr.com/V3I12/11> Vol. 3, Issue 12, December 2012, IJPSR, RE 779, Paper 11.pdf
- Patra, J. K., Das, G., Bose, S., Banerjee, S., Vishnuprasad, C. N., del Pilar Rodriguez-Torres, M., & Shin, H. S. (2020). Star anise (*Illicium verum*): Chemical compounds, antiviral properties, and clinical relevance. *Phytotherapy Research*, 34(6), 1248–1267. <https://doi.org/10.1002/ptr.6614>

- Putra, M. I. H., Suwanto, S., Loho, T., & Abdullah, M. (2017). Faktor Risiko Methicillin Resistant Staphylococcus aureus pada Pasien Infeksi Kulit dan Jaringan Lunak di Ruang Rawat Inap. *Jurnal Penyakit Dalam Indonesia*, 1(1), 3. <https://doi.org/10.7454/jpdi.v1i1.32>
- Qadir, A., Faiyazuddin, M. D., Talib Hussain, M. D., Alshammari, T. M., & Shakeel, F. (2016). Critical steps and energetics involved in a successful development of a stable nanoemulsion. *Journal of Molecular Liquids*, 214, 7–18. <https://doi.org/10.1016/j.molliq.2015.11.050>
- Rocha, L., Armando, L., & Tietbohl, C. (2016). Staranise (Illicium verum Hook) Oils. In *Essential Oils in Food Preservation, Flavor and Safety*. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-416641-7.00085-7>
- Rohman, A., Irnawati, Erwanto, Y., Lukitaningsih, E., Rafi, M., Fadzilah, N. A., Windarsih, A., Sulaiman, A., & Zakaria, Z. (2021). Virgin Coconut Oil: Extraction, Physicochemical Properties, Biological Activities and Its Authentication Analysis. *Food Reviews International*, 37(1), 46–66. <https://doi.org/10.1080/87559129.2019.1687515>
- Shakeel, F., Shafiq, S., Haq, N., Alanazi, F. K., & Alsarra, I. A. (2012). Nanoemulsions as potential vehicles for transdermal and dermal delivery of hydrophobic compounds: An overview. *Expert Opinion on Drug Delivery*, 9(8), 953–974. <https://doi.org/10.1517/17425247.2012.696605>
- Sheskey, J. P., G. W., and Cable, G. . (2017). *Handbook of Pharmaceutical Excipients 8th by Sheskey, Paul J Cook, Walter G Cable, Colin G.*
- Singh, Y., Meher, J. G., Raval, K., Khan, F. A., Chaurasia, M., Jain, N. K., & Chourasia, M. K. (2017). Nanoemulsion: Concepts, development and applications in drug delivery. *Journal of Controlled Release*, 252, 28–49. <https://doi.org/10.1016/j.jconrel.2017.03.008>
- Sinila, S. (2016). Farmasi Fisik Komprehensif. *Kemenkes RI*, 59.
- Sondari, D., & Tursiloadi, S. (2018). The effect of surfactant on formulation and stability of nanoemulsion using extract of Centella Asiatica and Zingiber Officinale. *AIP Conference Proceedings*, 2049(December). <https://doi.org/10.1063/1.5082515>
- Song, M., Zeng, Q., Xiang, Y., Gao, L., Huang, J., Huang, J., Wu, K., & Lu, J. (2018). The antibacterial effect of topical ozone on the treatment of MRSA skin infection. *Molecular Medicine Reports*, 17(2), 2449–2455. <https://doi.org/10.3892/mmr.2017.8148>
- Stanley, J. R. (2012). Synergy of understanding dermatologic disease and epidermal biology. *Journal of Clinical Investigation*, 122(2), 436–439. <https://doi.org/10.1172/JCI62237>
- Suciati, T., Aliyandi, A., & Satrialdi. (2014). Development of transdermal nanoemulsion formulation for simultaneous delivery of protein vaccine and artin-m adjuvant. *International Journal of Pharmacy and Pharmaceutical Sciences*, 6(6), 536–546.
- Suhendar, U., Utami, N. F., Sutanto, D., & Nurdyanty, S. M. (2020). PENGARUH BERBAGAI METODE EKSTRAKSI PADA PENENTUAN KADAR FLAVONOID EKSTRAK ETANOL DAUN ILER (Plectranthus scutellarioides). *FITOFARMAKA: Jurnal Ilmiah Farmasi*, 10(1), 76–83.

- <https://doi.org/10.33751/jf.v10i1.2069>
- Sung, Y. Y., Yang, W. K., Lee, A. Y., Kim, D. S., Jin Nho, K., Kim, Y. S., & Kim, H. K. (2012). Topical application of an ethanol extract prepared from *Illicium verum* suppresses atopic dermatitis in NC/Nga mice. *Journal of Ethnopharmacology*, 144(1), 151–159.
<https://doi.org/10.1016/j.jep.2012.08.042>
- Susanty, S., & Bachmid, F. (2016). PERBANDINGAN METODE EKSTRAKSI MASERASI DAN REFLUKS TERHADAP KADAR FENOLIK DARI EKSTRAK TONGKOL JAGUNG (*Zea mays L.*). *Jurnal Konversi*, 5(2), 87. <https://doi.org/10.24853/konversi.5.2.87-92>
- Thuat, B. Q., Thi, B., & Ngoc, B. (2010). *Obtaining Essential Oil and Shikimic Acid from Star Anise Fruit (Illicium verum Hook).* 26, 110–113.
- Unruh, I. R. R., Lamb, J. A., & Tejral, R. A. (1986). *United States Patent [191 Patent Number : Date of Patent : Primary Examiner-Joseph Ruggiero. 0–4.*
- Wang, G., Hu, W., Huang, B., & Qin, L. (2011). *Illicium verum : A review on its botany , traditional use , chemistry and pharmacology.* *Journal of Ethnopharmacology*, 136(1), 10–20.
<https://doi.org/10.1016/j.jep.2011.04.051>
- Watson, L., & Dallwitz, M. J. (1992). *The families of flowering plants: descriptions, illustrations, identification, and information retrieval.* Delta-Intkey.Com.
- Xue, H., Xu, M., Zhang, G., Wang, P., Yu, L., Zhao, Y., Tu, Y., & Zhao, Y. (2022). Study on the mechanism of enhanced gel strength of heat-induced egg white by shikimic acid braising. *Poultry Science*, 101(5), 101774.
<https://doi.org/10.1016/j.psj.2022.101774>
- Yuliani, S., & Noveriza, R. (2019). Effect of Carrier Oil and Co-Solvent on the Formation of Clove Oil Nanoemulsion by Phase Inversion Technique. *IOP Conference Series: Earth and Environmental Science*, 309(1). <https://doi.org/10.1088/1755-1315/309/1/012036>
- Zhang, Q. W., Lin, L. G., & Ye, W. C. (2018). Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine (United Kingdom)*, 13(1), 1–26. <https://doi.org/10.1186/s13020-018-0177-x>