

DAFTAR PUSTAKA

- Agency, D. E. (2022). *Determination of antimicrobial resistance by disk diffusion*. April.
- Alharbi, D. S., Albalawi, S. F., Alghrid, S. T., Alhwity, B. S., Qushawy, M., Mortagi, Y., El-Sherbiny, M., Prabahar, K., & Elsherbiny, N. (2023). Ginger Oil Nanoemulsion Formulation Augments Its Antiproliferative Effect in Ehrlich Solid Tumor Model. *Foods*, 12(22). <https://doi.org/10.3390/foods12224139>
- Anh, N. H., Kim, S. J., Long, N. P., Min, J. E., Yoon, Y. C., Lee, E. G., Kim, M., Kim, T. J., Yang, Y. Y., Son, E. Y., Yoon, S. J., Diem, N. C., Kim, H. M., & Kwon, S. W. (2020). Ginger on Human Health : A Comprehensive Controlled Trials. *MDPI Journal*, 12(157), 1–28.
- Aşkın, B., & Küçüköner, E. (2020). Turkish journal of agriculture - food science and technology. *Turkish Journal of Agriculture - Food Science and Technology*, 8(11), 2300–2306. <http://agrifoodscience.com/index.php/TURJAF/article/view/2298/1070>
- Assegaf, S., Kawilarang, A. P., & Handajani, R. (2020). Antibacterial Activity Test of Red Ginger Extract (*Zingiber officinale* var. *Rubrum*) Against *Streptococcus pyogenes* In vitro. *Biomolecular and Health Science Journal*, 3(1), 24. <https://doi.org/10.20473/bhsj.v3i1.19130>
- Aswathanarayan, J. B., & Vittal, R. R. (2019). Nanoemulsions and Their Potential Applications in Food Industry. *Frontiers in Sustainable Food Systems*, 3(November), 1–21. <https://doi.org/10.3389/fsufs.2019.00095>
- Bechir, F., Pacurar, M., Tohati, A., & Bataga, S. M. (2022). Comparative study of salivary ph, buffer capacity, and flow in patients with and without gastroesophageal reflux disease. *International Journal of Environmental Research and Public Health*, 19(1). <https://doi.org/10.3390/ijerph19010201>
- Chan, A. M. W., Au, W. W. Y., Chao, D. V. K., Choi, K., Choi, K. W., Choi, S. M.

- Y., Chow, Y., Fan, C. Y. M., Ho, P. L., Hui, E. M. T., Kwong, K. H., Kwong, B. Y. S., Lam, T. P., Lam, E. T. K., Lau, K. W., Lui, L., Ng, K. H. L., Wong, M. C. S., Wong, T. Y., ... Yung, R. W. H. (2019). Antibiotic management of acute pharyngitis in primary care. *Hong Kong Medical Journal*, 25(1), 58–63. <https://doi.org/10.12809/hkmj187544>
- Dash, R. P., Srinivas, N. R., & Babu, R. J. (2019). Use of sorbitol as pharmaceutical excipient in the present day formulations—issues and challenges for drug absorption and bioavailability. *Drug Development and Industrial Pharmacy*, 45(9), 1421–1429. <https://doi.org/10.1080/03639045.2019.1640722>
- Gupta, A., Eral, H. B., Hatton, T. A., & Doyle, P. S. (2016). Nanoemulsions: Formation, properties and applications. *Soft Matter*, 12(11), 2826–2841. <https://doi.org/10.1039/c5sm02958a>
- Juariah, S., Darmadi, Pratiwi Irawan, M., Surya, A., Puspa Dewi, M., Oktaviani Rz, I., Wardaniati, I., Margi Sidoretno, W., & Hutauruk, D. (2019). Expired human blood as an alternative substituent of sheep blood for Streptococcus Sp. growth. *Journal of Physics: Conference Series*, 1175(1). <https://doi.org/10.1088/1742-6596/1175/1/012012>
- Laelasari, I., & Zakiyatus Syadza, N. (2022). Pendampingan Pemanfaatan Jahe (*Zingiber officinale*) Sebagai Bahan Rempah Dalam Pembuatan Inovasi Makanan Herbal Penambah Immunitas. *Jurnal Bakti Saintek*, 6(2), 31–37. <https://doi.org/10.14421/jbs.3483>
- Lindberg, B. F., Nelson, I., Ranstam, J., & Riker, D. K. (2023). Early intervention with ColdZyme mouth spray after self-diagnosis of common cold: A randomized, double-blind, placebo-controlled study. *PLoS ONE*, 18(1 January), 1–14. <https://doi.org/10.1371/journal.pone.0279204>
- Malaka, M. H., Indalifiany, A., Sahidin, S., Fristiohady, A., & Andriani, R. (2022). FORMULATION AND PHYSICAL STABILITY TEST OF NANOEMULGEL CONTAINING *Petrosia* Sp. ETHANOLIC EXTRACT. *Jurnal Farmasi Sains Dan Praktis*, 7(3), 321–331.

<https://doi.org/10.31603/pharmacy.v7i3.6080>

- Manik Partha Sutema, I. A., Sukmantari, P. N. N., & Windidaca Brata Putri, D. (2022). Evaluasi Rasionalitas Terapi Antibiotik Pada Faringitis Akut di Puskesmas Kota Denpasar. *JFIONline* | *Print ISSN 1412-1107* | *e-ISSN 2355-696X*, 14(1), 79–86. <https://doi.org/10.35617/jfionline.v14i1.84>
- Mao, Q. Q., Xu, X. Y., Cao, S. Y., Gan, R. Y., Corke, H., Beta, T., & Li, H. Bin. (2019). Bioactive compounds and bioactivities of ginger (*zingiber officinale* roscoe). *Foods*, 8(6), 1–21. <https://doi.org/10.3390/foods8060185>
- Mappamasing, F., Anwar, E., & Mun'im, A. (2015). Formulasi, Karakterisasi dan Uji Penetrasi In Vitro Resveratrol Solid Lipid Nanopartikel dalam Krim Topikal (Formulation, Characterization and In Vitro Penetration Study of Resveratrol Solid Lipid Nanoparticles in Topical Cream). *Jurnal Ilmu Kefarmasian Indonesia*, 13(2), 137–144.
- Mašková, E., Kubová, K., Raimi-Abraham, B. T., Vllasaliu, D., Vohlídlová, E., Turánek, J., & Mašek, J. (2020). Hypromellose – A traditional pharmaceutical excipient with modern applications in oral and oromucosal drug delivery. *Journal of Controlled Release*, 324(May), 695–727. <https://doi.org/10.1016/j.jconrel.2020.05.045>
- Mostafa, N. M. (2018). Antibacterial activity of ginger (*Zingiber officinale*) leaves essential oil nanoemulsion against the cariogenic *Streptococcus mutans*. *Journal of Applied Pharmaceutical Science*, 8(9), 34–41. <https://doi.org/10.7324/JAPS.2018.8906>
- Moustafa, H., Mohamad, T., & Torkey, H. et al. (2015). Effect of formulated nanoemulsion of eucalyptus oil on the cotton bollworms. *J. Biol. Chem. Res*, 32(July 2015), 478–484.
- Müller, D., Lindemann, T., Shah-Hosseini, K., Scherner, O., Knop, M., Bilstein, A., & Mösges, R. (2016). Efficacy and tolerability of an ectoine mouth and throat spray compared with those of saline lozenges in the treatment of acute

pharyngitis and/or laryngitis: a prospective, controlled, observational clinical trial. *European Archives of Oto-Rhino-Laryngology*, 273(9), 2591–2597. <https://doi.org/10.1007/s00405-016-4060-z>

Musser, J. M., Beres, S. B., Zhu, L., Olsen, R. J., Vuopio, J., Hyyryläinen, H., Gröndahl-yl-hannuksela, K., Kristinsson, K. G., Darenberg, J., Henriques-normark, B., & Hoffmann, S. (2020). Reduced In Vitro Susceptibility of *Streptococcus pyogenes* to β -Lactam Antibiotics Associated with Mutations in the *pbp2x* Gene Is Geographically Widespread. *Clinical Microbiology*, 58(4).

Mustafa, Z., & Ghaffari, M. (2020). Diagnostic Methods, Clinical Guidelines, and Antibiotic Treatment for Group A Streptococcal Pharyngitis: A Narrative Review. *Frontiers in Cellular and Infection Microbiology*, 10. <https://doi.org/10.3389/fcimb.2020.563627>

Nandiyanto, A. B. D., Oktiani, R., & Ragadhita, R. (2019). How to read and interpret ftir spectroscopy of organic material. *Indonesian Journal of Science and Technology*, 4(1), 97–118. <https://doi.org/10.17509/ijost.v4i1.15806>

Nurdianti, L., Lestari, T., Nurmalasari, A., Wulandari, W. T., Cahyati, K. I., Setiawan, F., & Firmansya, A. (2024). Formulation And Evaluation of Preparations Edible Film Combination Gingerol And Curcumin As An Antibacterial *Streptococcus pyogenes* Causes Of Inflammation Of The Throat. *Media Farmasi: Jurnal Ilmu Farmasi*, 21(1), 33. <https://doi.org/10.12928/mf.v21i1.27616>

Nurlila, R. U., & La Fua, J. (2020). Jahe Peningkat Sistem Imun Tubuh di Era Pandemi Covid- 19 di Kelurahan Kadia Kota Kendari. *Jurnal Mandala Pengabdian Masyarakat*, 1(2), 54–61. <https://doi.org/10.35311/jmpm.v1i2.12>

Oliver, J., Malliya Wadu, E., Pierse, N., Moreland, N. J., Williamson, D. A., & Baker, M. G. (2018). Group A *Streptococcus* pharyngitis and pharyngeal carriage: A meta-analysis. *PLoS Neglected Tropical Diseases*, 12(3), 1–17. <https://doi.org/10.1371/journal.pntd.0006335>

- Rosatul Umah, & Eva Gusmira. (2024). Dampak Pencemaran Udara terhadap Kesehatan Masyarakat di Perkotaan. *Profit: Jurnal Manajemen, Bisnis Dan Akuntansi*, 3(3), 103–112. <https://doi.org/10.58192/profit.v3i3.2246>
- Shaffer, S. (2021). *SPEC_0821_IRSupplement*. 36(August).
- Shintyawati, D., Widiastuti, R., & Sulistyowati, R. (2024). FORMULASI DAN UJI STABILITAS FISIK EMULGEL EKSTRAK DAUN BINAHONG (*Anredera cordifolia*) SEBAGAI TABIR SURYA. *Forte Journal*, 4(1), 01–12. <https://doi.org/10.51771/fj.v4i1.626>
- Silviah, siti, Widodo, C. S., & Masruroh. (2019). Penggunaan Metode FT-IR (Fourier Transform Infra Red) Untuk Mengidentifikasi Gugus Fungsi Pada Proses Pembaluran Penderita Mioma. *Pharmaceutical Research*, 4(2), 19–27.
- Singh, H. (2023). Scope of nanoemulsions in food industry: A review Harmanjot Singh. *The Pharma Innovation*, 12(5), 3462–3468. www.thepharmajournal.com
- Srikandi, S., Humaeroh, M., & Sutamihardja, R. (2020). Kandungan Gingerol Dan Shogaol Dari Ekstrak Jahe Merah (*Zingiber Officinale* Roscoe) Dengan Metode Maserasi Bertingkat. *Al-Kimiya*, 7(2), 75–81. <https://doi.org/10.15575/ak.v7i2.6545>
- Thapa, R., Sai, K., Saha, D., Kushwaha, D., Aswal, V. K., Ghosh Moulick, R., Bose, S., & Bhattaharya, J. (2021). Synthesis and characterization of a nanoemulsion system for solubility enhancement of poorly water soluble non-steroidal anti-inflammatory drugs. *Journal of Molecular Liquids*, 334, 115998. <https://doi.org/10.1016/j.molliq.2021.115998>
- Wang, T., & Jackson, D. C. (2016). How and why pH changes with body temperature: The α -stat hypothesis. *Journal of Experimental Biology*, 219(8), 1090–1092. <https://doi.org/10.1242/jeb.139220>
- Yen, C. C., Chen, Y. C., Wu, M. T., Wang, C. C., & Wu, Y. T. (2018). Nanoemulsion as a strategy for improving the oral bioavailability and anti-

inflammatory activity of andrographolide. *International Journal of Nanomedicine*, 13, 669–680. <https://doi.org/10.2147/IJN.S154824>

Zhao, S., Wang, Z., Wang, X., Kong, B., Liu, Q., Xia, X., & Liu, H. (2023). Characterization of Nanoemulsions Stabilized with Different Emulsifiers and Their Encapsulation Efficiency for Oregano Essential Oil: Tween 80, Soybean Protein Isolate, Tea Saponin, and Soy Lecithin. *Foods*, 12(17). <https://doi.org/10.3390/foods12173183>