



DAFTAR PUSTAKA

- Ajazuddin, Alexander, A., Khichariya, A., Gupta, S., Patel, R.J., Giri, T.K., dkk., 2013. Recent Expansions in An Emergent Novel Drug Delivery Technology: Emulgel. *Journal of Controlled Release*, **171**: 122–132.
- Akhtar, N., Adnan, Q., Ahmad, M., Mehmood, A., dan Farzana, K., 2009. Rheological Studies and Characterization of Different Oils. *J. Chem. Soc. Pak.*, **13**: 201–206.
- Aljaafari, M.N., Alkhoori, M.A., Hag-Ali, M., Cheng, W.-H., Lim, S.-H.-E., Loh, J.-Y., dkk., 2022. Contribution of Aldehydes and Their Derivatives to Antimicrobial and Immunomodulatory Activities. *Molecules*, **27**: 3589.
- Api, A.M., Belsito, D., Botelho, D., Bruze, M., Burton, G.A., Buschmann, J., dkk., 2018. RIFM fragrance ingredient safety assessment, lauryl acetate, CAS Registry Number 112-66-3. *Food and Chemical Toxicology*, **122**: S242–S250.
- Apriliana, E. dan Syafira, A.U., 2016. Ekstraksi Daun Sirsak (*Annona muricata*) sebagai Antibakteri terhadap *Staphylococcus aureus* dan *Propionibacterium acnes*. *Majority*, **5**: .
- Arianto, A. dan Cindy, C., 2019. Preparation and Evaluation of Sunflower Oil Nanoemulsion As a Sunscreen. *Open Access Macedonian Journal of Medical Sciences*, **7**: 3757–3761.
- Arifin, M.F., Serlahwaty, D., Nabilah, S., Hasanah, D.M., dan Azhar, H., 2015. Optimasi Formula Emulgel Serbuk Kasar Papain (Optimization of Emulgel Formula of Papain Crude Powder). *Jurnal Ilmu Kefarmasian Indonesia*, **13**: 1–9.
- Armoškaitė, V., Ramanauskienė, K., dan Briedis, V., 2012. Evaluation of base for optimal drug delivery for iontophoretic therapy: Investigation of quality and stability. *African Journal of Pharmacy and Pharmacology*, **6**: .
- Awad, H., Khamis, M.M., dan El-Aneed, A., 2015. Mass Spectrometry, Review of the Basics: Ionization. *Applied Spectroscopy Reviews*, **50**: 158–175.
- Badan Penelitian dan Pengembangan Kesehatan, 1991. *Inventaris Tanaman Obat Indonesia I*. Perpustakaan Balitbangkes, Jakarta.
- Badan Standar Nasional, 2006. *Standar Nasional Indonesia Minyak Kayu Putih*, SNI 06-3954-2006.
- Baj, T., Glowniak, I.K., Kowalski, R., dan Malm, 2018. Chemical Composition and Microbiological Evaluation of Essential Oil from *Hyssopus officinalis* L. with White and pink Flowers. *De Gruyter*, **16**: 317–323.
- Balouiri, M., Sadiki, M., dan Ibnsouda, S.K., 2016. Methods for In Vitro Evaluating Antimicrobial Activity: A review. *Journal of Pharmaceutical Analysis*, **6**: 71–79.
- Baser, K.H.C. dan Demirci, F., 2010. *Handbook of Essential Oil : Science, Technology, Application*. CRC Press, Boca Raton/London/New York.
- Begum, S.G., Chetty, C.M., Pavithra, B., Akhila, B., Gayathri, C., Ruksar, S., dkk., 2019. A Review on Emulgels-A Novel Approach for Topical Drug Delivery. *Asian Journal of Pharmaceutical Research and Development*, **7**: 70–77.



- Bonacucina, G., Cespi, M., Misici-Falzi, M., dan Palmieri, G.F., 2006. Rheological, Adhesive and Release Characterisation of Semisolid Carbopol/tetraglycol systems. *International Journal of Pharmaceutics*, **307**: 129–140.
- Burt, S., 2004. Essential oils: Their Antibacterial Properties and Potential Applications in Foods—a review. *International Journal of Food Microbiology*, **94**: 223–253.
- Cahyani, N.E., Widiastuti, R., dan Ismiyati, I., 2020. Formulasi dan Uji Stabilitas Fisik Emulgel Tabir Surya Ekstrak Etanol Kulit Jeruk Nipis (*Citrus aurantifolia*) menggunakan Variasi Nilai HLB Emulgator. *Jurnal Ilmu Kesehatan Bhakti Setya Medika*, **5**: 42–54.
- Caya, D.N., Aryani, R., dan Priani, S.E., 2020. Kajian Pustaka Pengaruh Penambahan Surfaktan dan Kosurfaktan Terhadap Karakteristik Sediaan Mikroemulsi **6**: .
- Cervantes, M.L., Chávez, J.J.E., Alancaster, N.C., Guerrero, D.Q.-, dan Quintanar, A.G., 2009. Development and Characterization of A Transdermal Patch and An Emulgel Containing Kanamycin Intended to be used In The Treatment of Mycetoma caused by *Actinomadura madurae*. *Drug Development and Industrial Pharmacy*, **00**: 090630072328049–11.
- Chasanah, U., Nurwiyanti, A., Salsabilla Miftakhurrohmah, A., Hamid Afif, M., Najihah, Z., Rizky Hanwidi Putra, R., dkk., 2023. Optimisation of Emulgel Combination of Tea Tree Oil and Lavender Oil: Evaluation and Antibacterial Study. *KnE Medicine*, .
- Dahham, S., Tabana, Y., Iqbal, M., Ahamed, M., Ezzat, M., Majid, Aman, dkk., 2015. The Anticancer, Antioxidant and Antimicrobial Properties of the Sesquiterpene β-Caryophyllene from the Essential Oil of Aquilaria crassna. *Molecules*, **20**: 11808–11829.
- Daud, N.S. dan Suryanti, E., 2017. Formulasi Emulgel Antijerawat Minyak Nilam (Patchouli oil) Menggunakan Tween 80 dan Span 80 sebagai Pengemulsi dan HPMC sebagai Basis Gel. *Jurnal Mandala Pharmacon Indonesia*, **3**: 90–95.
- Dewi, S.R., Ressandy, S.S., Handoko, L., Pratiwi, J., dan Rahmah, W., 2023. Formulation and Test of Antibacterial Activity of Emulgel Essential Oil of Citronella (*Cymbopogon nardus* (L.) Rendle) and Aloe Vera (*Aloe vera* (L.) Burm. F.) Extract against *Propionibacterium acnes*. *Journal of Vocational Health Studies*, **6**: 158–164.
- Dhifi, W., Bellili, S., Jazi, S., Bahloul, N., dan Mnif, W., 2016. Essential Oils' Chemical Characterization and Investigation of Some Biological Activities: A Critical Review. *Medicines*, **3**: 25.
- Emwas, A.-H.M., Al-Talla, Z.A., Yang, Y., dan Kharbatia, N.M., 2015. Gas Chromatography–Mass Spectrometry of Biofluids and Extracts, dalam: Bjerrum, J.T. (Editor), *Metabonomics, Methods in Molecular Biology*. Springer New York, New York, NY, hal. 91–112.
- ErgiN, A.D., İNAL, Ö., dan Barakat, A., 2023. In vitro and ex vivo assessments of surfactant-free topical curcumin emulgel. *Journal of Research in Pharmacy*, **27(2)**: 544–556.



- Fang, F., Xie, Z., Quan, J., Wei, X., Wang, L., dan Yang, L., 2020. Baicalin suppresses Propionibacterium acnes-induced skin inflammation by downregulating the NF-κB/MAPK signaling pathway and inhibiting activation of NLRP3 inflammasome. *Brazilian Journal of Medical and Biological Research*, **53**: e9949.
- Farida, S. dan Maruzy, A., 2016. Kecombrang (*Etlingera elatior*): Sebuah Tinjauan Penggunaan Secara Tradisional, Fitokimia dan Aktivitas Farmakologinya. *Jurnal Tumbuhan Obat Indonesia*, **9**: 19–28.
- Ferreira, F.D.S., Neto, J.B.D.A., Oliveira-Tintino, C.D.D.M., De Araújo, A.C.J., Ribeiro-Filho, J., Freitas, P.R., dkk., 2023. Chemical composition and antibacterial effects of *Etlingera elatior* (Jack) R.M. Smith against *Staphylococcus aureus* efflux pumps. *Chemico-Biological Interactions*, **386**: 110751.
- Gandova, V., Petrova, I., Tasheva, S., dan Stoyanova, A., 2022. Dynamic Viscosity, Centrifugation Test and Kinetic Investigation In Emulsions with Pumpkin Oil. *BIO Web of Conferences*, **45**: 01002.
- Garg, A., Aggarwal, D., Garg, S., dan Singla, A.K., 2002. Spreading of Semisolid Formulations. *Pharmaceutical Technology*, .
- Ghasemzadeh, A., Jaafar, H.Z.E., Rahmat, A., dan Ashkani, S., 2015. Secondary metabolites constituents and antioxidant, anticancer and antibacterial activities of *Etlingera elatior* (Jack) R.M.Sm grown in different locations of Malaysia. *BMC Complementary and Alternative Medicine*, **15**: 335.
- Gore, E., Picard, C., dan Savary, G., 2018. Spreading behavior of cosmetic emulsions: Impact of the oil phase. *Biotribology*, **16**: 17–24.
- Guenther, E. dan Ketaren, S., 1987. *Minyak Atsiri Jilid I*. Penerbit Universitas Indonesia, Jakarta.
- Hadinugroho, W., 2011. Optimasi formula tablet lepas lambat ibuprofen secara simplex lattice design dengan campuran carrageenan, kalsium sulfat, dan PVP-K30.
- Hajrin, W., Subaidah, W.A., Juliantoni, Y., dan Wirasisya, D.G., 2021. Application of Simplex Lattice Design Method on The Optimisation of Deodorant Roll-on Formula of Ashitaba (*Angelica keiskei*). *Jurnal Biologi Tropis*, **21**: 501–509.
- Hartoyo, I.P., Pranata, F.S., dan Swasti, Y.R., 2022. Peningkatan Kualitas Cookies dengan Penambahan Minyak Atsiri Bunga Keocmbrang (*Etlingera elatior*). *Jurnal Agroteknologi*, **16**: 62.
- Hidayati, N., Sutaryono, S., Santi, C., dan Addin, Q., 2022. Optimasi Formula Gel Aromaterapi Minyak Atsiri Bunga Kenanga (*Cananga odorata*) dengan Variasi Carbopol 940 dan Gliserin menggunakan Metode Simplex Lattice Design (SLD). *CERATA Jurnal Ilmu Farmasi*, **13**: 10–17.
- Hilmarni, H., Rosi, D.H., Mulyani, D., Ranova, R., Yulia, M., Alawiyah, T., dkk., 2024. Anti-acne Emulgel Formulation of Torbangun Leaf Essential Oil (*Plectranthus ambinicus* (Lour.) Spreng. and Antibacterial Test agants *Staphylococcus aureus* and *Propionibacterium acne* bacteria. *Asian Journal of Pharmaceutical Research and Development*, **12**: 01–08.



- Hodaei, M., Rahimmalek, M., dan Arzani, A., 2017. Variation in morphological characters, chemical composition, and anthocyanin content of different Chrysanthemum morifolium cultivars from Iran. *Biochemical Systematics and Ecology*, **74**: 1–10.
- Hua, L., Weisan, P., Jiayu, L., dan Hongfei, L., 2004. Preparation and evaluation of microemulsion of vincristine for transdermal delivery.
- Hussain, S.Z. dan Maqbool, K., 2014. GC-MS: Principle, Technique and its application in Food Science.
- Jagdale, S. dan Pawar, S., 2017. Gellified Emulsion of Ofloxacin for Transdermal Drug Delivery System. *Advanced Pharmaceutical Bulletin*, **7**: 229–239.
- Julianto, T.S., 2016. *Minyak Atsiri Bunga Indonesia*, 1st ed. Deepublish, Yogyakarta.
- Juwita, T., Melyani Pu, I., dan Levita, J., 2018. Torch Ginger (Etlingera elatior): A Review on its Botanical Aspects, Phytoconstituents and Pharmacological Activities. *Pakistan Journal of Biological Sciences*, **21**: 151–165.
- Khan, B.A., Ali, A., Hosny, K.M., Halwani, A.A., Almehmady, A.M., Iqbal, M., dkk., 2022. Carbopol Emulgel Loaded with Ebastine for Urticaria: Development, Characterization, In Vitro and In Vivo Evaluation. *Drug Delivery*, **29**: 52–61.
- Kiss, L., Walter, F.R., Bocsik, A., Veszelka, S., Ózsvári, B., Puskás, L.G., dkk., 2013. Kinetic Analysis of the Toxicity of Pharmaceutical Excipients Cremophor EL and RH40 on Endothelial and Epithelial Cells. *Journal of Pharmaceutical Sciences*, **102**: 1173–1181.
- Kraisit, P., Hirun, N., Limpamanoch, P., Sawaengsuk, Y., Janchoochai, N., Manasaksirikul, O., dkk., 2024. Effect of Cremophor RH40, Hydroxypropyl Methylcellulose, and Mixing Speed on Physicochemical Properties of Films Containing Nanostructured Lipid Carriers Loaded with Furosemide Using the Box–Behnken Design. *Polymers*, **16**: 1605.
- Kuriyama, T., Karasawa, T., dan Williams, D.W., 2014. Antimicrobial Chemotherapy: Significance to Healthcare, dalam: *Biofilms in Infection Prevention and Control*. Academic Press, hal. 209–244.
- Kutlu, Ö., Karadağ, A.S., dan Wollina, U., 2023. Adult acne versus adolescent acne: a narrative review with a focus on epidemiology to treatment. *Anais Brasileiros de Dermatologia*, **98**: 75–83.
- Liu, K., Chen, Q., Liu, Y., Zhou, X., dan Wang, X., 2012. Isolation and Biological Activities of Decanal, Linalool, Valencene, and Octanal from Sweet Orange Oil. *Journal of Food Science*, **77**: C1156–C1161.
- Mahmoud, H., 2013. Design and Optimization of Self-Nanoemulsifying Drug Delivery Systems of Simvastatin aiming Dissolution Enhancement. *African Journal of Pharmacy and Pharmacology*, **7**: 1482–1500.
- Marchese, A., Barbieri, R., Coppo, E., Orhan, I.E., Daglia, M., Nabavi, S.F., dkk., 2017. Antimicrobial activity of eugenol and essential oils containing eugenol: A mechanistic viewpoint. *Critical Reviews in Microbiology*, **43**: 668–689.
- Marzlan, A.A., Muhialdin, B.J., Zainal Abedin, N.H., Mohammed, N.K., Abadl, M.M.T., Mohd Roby, B.H., dkk., 2020. Optimized supercritical CO₂



- extraction conditions on yield and quality of torch ginger (Etlingera elatior (Jack) R.M. Smith) inflorescence essential oil. *Industrial Crops and Products*, **154**: 112581.
- Medhe, S., 2018. Ionization Techniques in Mass Spectrometry: A Review. *Mass Spectrometry & Purification Techniques*, **04**: .
- Miguel, M.G., 2010. Antioxidant and Anti-Inflammatory Activities of Essential Oils: A Short Review. *Molecules*, **15**: 9252–9287.
- Mulia, S.S., Ayu, D.F., dan Zalfiatri, Y., 2020. Lama Destilasi Air terhadap Sifat Fisiko-Kimia Minyak Atsiri Bunga Kecombrang (*Nicolaia speciosa Horan*). *Jurnal Sagu*, **19**: 40.
- Naufalin, R., 2005. Kajian sifat antimikroba ekstrak bunga kecombrang (*Nicolaia speciosa Horun*) terhadap berbagai mikroba patogen dan perusak pangan. *Institut Pertanian Bogor*, .
- Niraj Kumar dan Saxena, C., 2019. A Novel Approach for Topical Drug Delivery System—Emulgel.
- Nurjanah, N., Aprilia, B.E., Fransiskayana, A., Rahmawati, M., dan Nurhayati, T., 2018. Senyawa Bioaktif Rumput Laut dan Ampas Teh sebagai Antibakteri dalam Formula Masker Wajah. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **21**: 305.
- Osborne, D.W. dan Musakhian, J., 2018. Skin Penetration and Permeation Properties of Transcutol®—Neat or Diluted Mixtures. *AAPS PharmSciTech*, **19**: 3512–3533.
- Pakpahan, K.Y., Yamlean, P.V.Y., dan Jayanto, I., 2020. Formulasi dan Uji Antibakteri Gel Ekstrak Etanol Daun Kedondong (*Spondias dulcis*) terhadap Bakteri *Pseudomonas aeruginosa*. *PHARMACON*, **9**: 8.
- Pande, V., Patel, S., Patil, V., dan Sonawane, R., 2014. Design Expert Assisted Formulation of Topical Bioadhesive Gel of Sertaconazole Nitrate. *Advanced Pharmaceutical Bulletin; eISSN 2251-7308*, .
- Panwar, A.S., Gandhi, S., Sharma, A., Upadhyay, N., Bairagi, M., Gujar, S., dkk., 2011. Emulgel : A Review. *Asian Journal of Pharmacy and Life Science*, **1**: 3.
- Pardosi, F., Sitompul, E., dan Nainggolan, M., 2012. Uji Aktivitas Antibakteri Minyak Atsiri Dan Ekstrak Etanol Dari Bunga Kecombrang (*Nicolaia speciosa Horan*) Terhadap Bakteri *Staphylococcus epidermidis*, *Staphylococcus aureus* Dan *Pseudomonas aeruginosa*. *Universitas Sumatera Utara*, .
- Peneva, P., Andonova, V., Dimcheva, T., dan Kassarova, M., 2018. Technological and Biopharmaceutical Characterization of Carbopol-Based Ketoprofen Emulgels. *Indian Journal of Pharmaceutical Education and Research*, **52**: .
- Purwanto, U.R.E., Solikhah, M., dan Munisih, S., 2021. Formulation and Physical Characterization of Essential Oil Bangal (Zingiber cassumunar Roxb.) Nanoemulsion Gel. *Journal of Science and Technology Research for Pharmacy*, **1**: 1–11.
- Renugadevi, R.K., Nachiyar, V., dan Zaveri, M., 2021. Bioactivity of Dodecanoic Acid Extracted from *Geitlerinema sp.* TRV57. *Indian Journal of Pharmaceutical Education and Research*, **55**: 224–231.



- Restu, W.K., Sampora, Y., Meliana, Y., dan Haryono, A., 2015. Effect of Accelerated Stability Test on Characteristics of Emulsion Systems with Chitosan as a Stabilizer. *Procedia Chemistry*, **16**: 171–176.
- Rosen, M.J. dan Kunjappu, J.T., 2012. *Surfactants and Interfacial Phenomena*, 4th ed. Wiley.
- Rowe, R.C., Sheskey, P.J., dan Quinn, M.E., 2009. *Handbook of Pharmaceutical Excipients*, 6th ed. ed. Pharmaceutical press, London.
- Sabri, H.S., Ali, W.K., Abdullah, B.H., dan Al-Ani, W.M.K., 2016. Formulation Design and Evaluation of Anti-Microbial Activity of Emulgel Containing Essential Oil of Myrtus communis L. *International Journal Pharmacy Science*, **40**: 271–277.
- Sah, S.K., Badola, A., dan Nayak, B.K., 2017. Emulgel: Magnifying the application of topical drug delivery. *Indian Journal of Pharmaceutical and Biological Research*, **5**: 25–33.
- Saidah, N., I, S., Hilmi Ab., M., Kahiri Z, M., Adawiyah U., R., dan Adani S., N., 2019. In vitro Antibacterial Properties of *Etlingera elatior* Flower Extracts against Acne-Inducing Bacteria: *Propionibacterium acnes* and *Staphylococcus aureus*. *IIUM Medical Journal Malaysia*, **18**: .
- Salehi, B., Upadhyay, S., Erdogan Orhan, I., Kumar Jugran, A., L.D. Jayaweera, S., A. Dias, D., dkk., 2019. Therapeutic Potential of α - and β -Pinene: A Miracle Gift of Nature. *Biomolecules*, **9**: 738.
- Santos, R.S.D., Silva, J.B.D., Rosseto, H.C., Vecchi, C.F., Campanholi, K.D.S.S., Caetano, W., dkk., 2021. Emulgels Containing Propolis and Curcumin: The Effect of Type of Vegetable Oil, Poly(Acrylic Acid) and Bioactive Agent on Physicochemical Stability, Mechanical and Rheological Properties. *Gels*, **7**: 120.
- Saptana, Y.I., Sulistiarini, R., dan Rusli, R., 2015. 'Aktivitas Antibakteri Gel Ekstrak Kecombrang (*Etlingera elatior*) terhadap Bakteri *Staphylococcus aureus* dan *Staphylococcus epidermidis*', , dalam: *Proceeding of Mulawarman Pharmaceuticals Conferences*. Dipresentasikan pada Mulawarman Pharmaceuticals Conferences, Fakultas Farmasi, Universitas Mulawarman, Samarinda, hal. 136–141.
- Sastrohamidjojo, H., 2004. *Kimia Minyak Atsiri*. GadjahMada University Press, Yogyakarta.
- Sharmin, N. dan Jalil, R., 2010. A Novel Method to Study the Effect of pH and Excipients on Water Uptake and Swelling Behaviour of Carbopol Polymers. *Bangladesh Pharmaceutical Journal*, **13**: .
- Sibero, H.T., Putra, I.W.A., dan Anggraini, D.I., 2019. Tatalaksana Terkini Acne Vulgaris. *Jurnal Kedokteran Universitas Lampung*, **3**: 313–320.
- Sifatullah, N., 2021. Jerawat (Acne vulgaris): Review Penyakit Infeksi Pada Kulit. *Prosiding Biologi Achieving the Sustainable Development Goals with Biodiversity in Confronting Climate Change*, .
- Simanjuntak, H.A. dan Gurning, K., 2020. Uji Aktivitas Antibakteri dari Sediaan Krim Ekstrak Etanol Herba Tumbuhan Balsem (*Polygala paniculata* L.) terhadap Bakteri *Propionebacterium acnes* Penyebab Jerawat. *EKSAKTA : Jurnal Penelitian dan Pembelajaran MIPA*, **5**: 133.



- Singh, S., Chauhan, S.B., Gupta, C., Singh, I., Gupta, A., Sharma, S., dkk., 2023. Design and Characterization of Citronella Oil-Loaded Micro-Emulgel for the Treatment of *Candida Albicans* Infection. *Gels*, **9**: 799.
- Sisak, M.A.A., Daik, R., dan Ramli, S., 2017. Sudy on The Effect of Oil Phase and Co-Surfactant on Microemulsion Systems. *Malaysian Journal of Analytical Science*, **21**: .
- Smith, R.W., 2023. Mass Spectrometry, dalam: *Encyclopedia of Forensic Sciences, Third Edition (Third Edition)*. Elsevier, hal. 464–473.
- Soetjipto, H., Hastuti, S.P., dan Kristanto, O., 2009. Identifikasi Senyawa Antibakteri Minyak Atsiri Bunga Kecombrang (*Nicolaia speciosa* Horan). *Prosiding Seminar Nasional Sains dan Pendidikan Sains IV*, **3**: 640–655.
- Sugihartini, N., Kurniawan, M.F., dan Yuwono, T., 2020. Anti-inflammatory Activity of Syzygium Aromaticum Essential Oil in Emulgel. *Jordan Journal of Pharmaceutical Sciences*, **13**: .
- Sukandar, D., Fitriyanti, M., Amelia, E.R., Riyadhi, A., dan Azizah, R.N., 2018. 'Characterization of Chemical Constituent and Antibacterial Activity of Honje Fruit Skin (*Etlingera elatior*)', , dalam: *Proceedings of the International Conference on Science and Technology (ICOSAT 2017)*. Dipresentasikan pada International Conference on Science and Technology (ICOSAT 2017) - Promoting Sustainable Agriculture, Food Security, Energy, and Environment Through Science and Technology for Development, Atlantis Press, Ancol, Indonesia.
- Sullivan, D.W., Gad, S.C., dan Julien, M., 2014. A review of the nonclinical safety of Transcutol®, a highly purified form of diethylene glycol monoethyl ether (DEGEE) used as a pharmaceutical excipient. *Food and Chemical Toxicology*, **72**: 40–50.
- Sumarni, N.K., 2022. Review Artikel : Uji Iritasi Sediaan Topikal dari Tumbuhan Herbal.
- Susanti, D., Awang, N.A., Qaralleh, H., Sheikh Mohamed, H.I., dan Attoumani, N., 2013. Antimicrobial Activity and Chemical Composition of Essential Oil of Malaysian *Etlingera elatior* (Jack) R.M. Smith Flowers. *Journal of Essential Oil Bearing Plants*, **16**: 294–299.
- Sutaria, A.H., Masood, S., Saleh, H.M., dan Schlessinger, J., 2023. *Acne Vulgaris*. StatPearls Publishing.
- Syafriana, V., Purba, R.N., dan Djuhariah, Y.S., 2021. Antibacterial Activity of Kecombrang Flower (*Etlingera elatior* (Jack) R.M. Sm) Extract against *Staphylococcus epidermidis* and *Propionibacterium acnes*. *Journal of Tropical Biodiversity and Biotechnology*, **6**: 58528.
- Syed, H.K. dan Peh, K.K., 2014. Identification of Phases of Various Oil, Surfactant/Co-Surfactants and Water System by Ternary Phase Diagram. *Polish Pharmaceutical Society*, **71**: 301–309.
- Szewczyk, E., Karlowicz-Bodalska, K., Han, S., dan Musial, W., 2014. Influence of Liquid Paraffin, White Soft Paraffin and Initial Hydration on Viscosity of Corticosteroid Cream. *Tropical Journal of Pharmaceutical Research*, **13**: 1233.



- Taleb, M., Abdeltawab, N., Shamma, R., Abdelgayed, S., Mohamed, S., Farag, M., dkk., 2018. *Origanum vulgare* L. Essential Oil as a Potential Anti-Acne Topical Nanoemulsion—In Vitro and In Vivo Study. *Molecules*, **23**: 2164.
- Tambunan, S. dan Sulaiman, T.N.S., 2019. Gel Formulation of Lemongrass Essential Oil with HPMC and Carbopol Bases. *Majalah Farmaseutik*, **14**: 87.
- Togashi, N., Shiraishi, A., Nishizaka, M., Matsuoka, K., Endo, K., Hamashima, H., dkk., 2007. Antibacterial Activity of Long-Chain Fatty Alcohols against *Staphylococcus aureus*. *Molecules*, **12**: 139–148.
- Upadhyay, R., Patel, K., dan Upadhyay, D.U., 2023. A Review Article on Advancements in GC-MS **8**:
- Usta, D.Y., Teksin, Z.S., dan Tugcu-Demiroz, F., 2024. Evaluation of Emulgel and Nanostructured Lipid Carrier-Based Gel Formulations for Transdermal Administration of Ibuprofen: Characterization, Mechanical Properties, and Ex-Vivo Skin Permeation. *AAPS PharmSciTech*, **25**: 124.
- Vasiljevic, D., Parojcic, J., Primorac, M., dan Vuleta, G., 2006. An investigation into the characteristics and drug release properties of multiple W/O/W emulsion systems containing low concentration of lipophilic polymeric emulsifier. *International Journal of Pharmaceutics*, **309**: 171–177.
- Wasitaatmadja, S.M., 2018. *Akne*. FKUI, Jakarta.
- Wijekoon, M.M.J.O., Bhat, R., Karim, A.A., dan Fazilah, A., 2013. Chemical Composition and Antimicrobial Activity of Essential Oil and Solvent Extracts of Torch Ginger Inflorescence (*Etlingera elatior* Jack.). *International Journal of Food Properties*, **16**: 1200–1210.