

DAFTAR PUSTAKA

- Abdelkader, H., Alani, A. W. G., & Alany, R. G. (2014). Recent advances in non-ionic surfactant vesicles (niosomes): Self-assembly, fabrication, characterization, drug delivery applications and limitations. *Drug Delivery*, 21(2), 87–100. <https://doi.org/10.3109/10717544.2013.838077>
- Aji, A., Bahri, S., & Tantalia. (2017). Pengaruh Waktu Ekstraksi dan Konsentrasi HCl. *Jurnal Teknologi Kimia Unimal*, 1(Mei), 33–44. <http://ojs.unimal.ac.id/index.php/jtk>
- Aji, A. P., Issusilaningtyas, E., & Ratih, D. (2023). Metabolit Sekunder Ekstrak Daun Bakau Hitam. *Sains Indonesiana: Jurnal Ilmiah Nusantara*, 1(3), 173–181.
- Alkilani, A. Z., Musleh, B., Hamed, R., Swellmeen, L., & Basheer, H. A. (2023). Preparation and Characterization of Patch Loaded with Clarithromycin Nanovesicles for Transdermal Drug Delivery. *Journal of Functional Biomaterials Article*. <https://doi.org/https://doi.org/10.3390/jfb14020057>
- Aly, M. A. N., Pratama, E., Shobahah, J., & Munandar, T. E. (2025). Formulation , Physical Characterization , and Stability Nanoemulgel Containing *Jatropha curcas* Leaves Extract Study of. *Jurnal Farmasi Dan Ilmu Kefarmasian Indonesia Vol.*, 12(3), 407–413. <https://doi.org/10.20473/jfiki.v12i32025.407-413>
- Anjum, A., Shabbir, K., Ud, F., Shafique, S., Saoud, S., & Ali, H. (2023). Co-delivery of amphotericin B and pentamidine loaded niosomal gel for the treatment of Cutaneous leishmaniasis. *Drug Delivery*, 30(1). <https://doi.org/10.1080/10717544.2023.2173335>
- Aparajay, P., & Dev, A. (2022). Functionalized niosomes as a smart delivery device in cancer and fungal infection. *European Journal of Pharmaceutical Sciences*, 168, 106052. <https://doi.org/10.1016/j.ejps.2021.106052>
- Arrofiqi, M. R., Sakti, A. S., & Mayangsari, F. D. (2024). Kajian Literatur: Aplikasi Sejumlah Metode Ekstraksi Konvensional untuk Mengekstraksi Senyawa Fenolik dari Bahan Alam. *Jurnal Penelitian Farmasi & Herbal*, 7(1), 8–24. <https://doi.org/10.36656/jpfh.v7i1.1972>

- Aruan, M., Ayuningtyas, N. D., & Ismena, A. V. N. (2025). Aktivitas Antibakteri Kombinasi Ekstrak Bawang Putih (*Allium Sativum* L.) dan Ekstrak Kunyit (*Curcuma Longa* L.) Terhadap *Propionibacterium acnes*. *Bioscientist : Jurnal Ilmiah Biologi*, 13(1), 39. <https://doi.org/10.33394/bioscientist.v13i1.14646>
- Aspadih, V., Akib, N. I., Indalifiany, A., Muliadi, R., Layuk, R. R., Oleo, U. H., & Sulawesi, S. (2025). *Optimization of Tween 80 and Span 80 Combination in the Formulation of Niacinamide-Containing Body Lotion*. 1(1), 1–7.
- Asram, A., & Ğiroĝlu, S. A. (2023). Preparation and Characterization of Topical Niosomal Formulation Containing Retinyl Palmitate and Squalane for Enhanced Skin Delivery. *Journal of Research in Pharmacy Research*, 27(5), 1821–1830.
- Balouiri, M., Sadiki, M., & Ibsouda, S. K. (2016). Methods for in vitro evaluating antimicrobial activity : A review. *Journal of Pharmaceutical Analysis*, 6, 71–79. <https://doi.org/http://dx.doi.org/10.1016/j.jpha.2015.11.005>
- Barani, M., Mirzaei, M., & Torkzadeh-mahani, M. (2019). *Evaluation of Carum-loaded Niosomes on Breast Cancer Cells : Physicochemical Properties , In Vitro Cytotoxicity , Flow Cytometric , DNA Fragmentation and Cell Migration Assay*. July 2018, 1–10. <https://doi.org/10.1038/s41598-019-43755-w>
- Bautista-Solano, A. A., Dávila-Ortiz, G., Perea-Flores, M. de J., & Martínez-Ayala, A. L. (2025). A Comprehensive Review of Niosomes: Composition, Structure, Formation, Characterization, and Applications in Bioactive Molecule Delivery Systems. *Molecules*, 30(17), 1–21. <https://doi.org/10.3390/molecules30173467>
- Bawahab, A. P., Eko, N., & Budianto, W. (2025). Uji Efektivitas Ekstrak Kunyit Putih (*Curcuma Zedoaria Rosc .*) dalam Menghambat Bakteri *Staphylococcus epidermidis*. *Journal of Herbal, Clinical and Pharmaceutical Sciences*, 06(02), 131–139. <https://doi.org/10.30587/herclips.v6i02.8044>
- Bernstein, E. F., Sarkas, H. W., & Boland, P. (2021). *Iron oxides in novel skin care formulations attenuate blue light for enhanced protection against skin damage*. October 2020, 532–537. <https://doi.org/10.1111/jocd.13803>
- Bertolani, M., Rodighiero, E., Saleri, R., Pedrazzi, G., Bertoli, S., Leone, A., Feliciani, C., Lotti, T., & Satolli, F. (2022). *The influence of Mediterranean*

- diet in acne pathogenesis and the correlation with insulin-like growth factor-1 serum levels : Implications and results.* 14, 11–14.
<https://doi.org/10.4081/dr.2022.9143>
- Budiansyah, Agus, Ucop Haroen , Syafwan Syafwan, K. K. (2023). Antioxidant and antibacterial activities of the rhizome extract of *Curcuma zedoaria* extracted using some organic solvents. *Jurnal of Advanced Veterinary and Animal Research*, 7710(September), 347–360.
<https://doi.org/http://doi.org/10.5455/javar.2023.j687>
- Budiansyah, A. (2023). Antioxidant and antibacterial activities of the rhizome extract of *Curcuma zedoaria* extracted using some organic solvents. *Journal of Advanced Veterinary and Animal Research*, 7710(September), 347–360.
<https://doi.org/http://doi.org/10.5455/javar.2023.j687>
- Busman, E., & Wirahmi, S. D. (2019). *Daya hambat Ekstrak Rimpang Temu Putih (Curcuma zedoaria) Terhadap Streptococcus mutans dan Staphylococcus aureus.* XIII(6), 19–28.
- Carroll, K. C. (2017). *Mikrobiologi Kedokteran Jawetz, Melnick & Adelberg* (27 ed.). Jakarta: ECG.
- Chachad, D. P., Talpade, M. B., & Jagdale, S. P. (2016). *Antimicrobial Activity of Rhizomes of Curcuma.* 5(11), 2015–2017.
<https://doi.org/10.21275/ART20162324>
- Chen, H. J., Lee, P. Y., Chen, C. Y., Huang, S. L., Huang, B. W., Dai, F. J., & Chau, C. F. (2022). Moisture retention of glycerin solutions with various concentrations : a comparative study. *Scientific Reports*, 1–7.
<https://doi.org/10.1038/s41598-022-13452-2>
- Christoforou, I., Kalatzis, A., Siamidi, A., Vlachou, M., Pispas, S., & Pippa, N. (2025). The Ubiquitous Use of Polyethylene Glycol in Pharmaceutical Design and Development: Technological Aspects and Future Perspectives. *Nanomaterials*, 15(23), 1–35. <https://doi.org/10.3390/nano15231762>
- Chunxiao, Z., , Baozhen, Wei Li, Y., & Wang, C. (2025). Antibiotic resistance rates in *Cutibacterium acnes* isolated from patients with acne vulgaris : a systematic review and. *Frontiers in Micrcobiology*, June, 1–14.
<https://doi.org/10.3389/fmicb.2025.1565111>

- D A Setyani, D U C Rahayu, S Handayani, P. S. (2020). Phytochemical and antiacne investigation of Indonesian White Turmeric (*Curcuma zedoaria*) Rhizomes Phytochemical and antiacne investigation of Indonesian White Turmeric (*Curcuma zedoaria*) Rhizomes. *Materials Science and Engineering*. <https://doi.org/10.1088/1757-899X/902/1/012066>
- Dila Anggraeni, Marita Kaniawati, G. J. (2023). Pendekatan Nanoteknologi Untuk Penghantaran Bahan Aktif Farmasi Dalam Terapi Acne Vulgaris. *Majalah Farmasetika*, 8(4), 283–304. <http://doi.org/10.24198/mfarmasetika.v8i4.45498>
- Dominica, D., Handayani, D., S-farmasi, P., Matematika, F., Alam, P., & Bengkulu, U. (2019). Formulasi dan Evaluasi Sediaan Lotion dari Ekstrak Daun Lengkek (*Dimocarpus Longan*) sebagai Antioksidan. *Jurnal Farmasi Dan Ilmu Kefarmasian Indonesia*, 6(1), 1–7.
- Dwivedi, K., Mandal, A. K., Afzal, O., Saleh, A., & Altamimi, A. (2023). *Emergence of Nano-Based Formulations for Effective Delivery of Flavonoids against Topical Infectious Disorders*.
- Dwiyanti, A. B., Niken, D., Ferdinand, P., Dewi, M., Wati, N. M., Hindriani, R., Jl, A., Syarkawi, G., Dalam, S., Alalak, K., & Kuala, K. B. (2025). Review Metode Ekstraksi : Maserasi , Perkolasi , Infusa , Soxhlet , Refluks , Ultrasonic Assisted Extraction (UAE), dan Microwave Assisted Extraction (MAE) Universitas Muhammadiyah Banjarmasin , Indonesia. *Jurnal Riset Rumpun Ilmu Kedokteran*, 4, 31–49. <https://doi.org/https://doi.org/10.55606/jurrike.v4i3.6465>
- Eva Zulisa, S.ST., M.Tr.Keb.; Hairil Akbar, S.KM., M.Epid.; Susan Susyanti, S.Kp., M.Kep; Ns. Yasin Wahyurianto, S.Kep., M.Si; Masdi Janiarli, SST., M. Kes; Viyan Septiyana Achmad, S.Kep., Ners., M.Kep; Ns. Yuanita Panma, M.Kep., S.Kep., MB.; Maria K. Rin, M. K. (2021). *Anatomi Dan Fisiologi Tubuh Manusia* (M. K. Sari Luthfiyah, SKp. (ed.)). Yayasan Penerbit Muhammad Zaini.
- Firmansyah, T., Oriana, E., & La, J. (2022). *Skrining Fitokimia Ekstrak Etanol Rimpang Kunyit Puith Curcuma Zedoaria (Christm .) Roscoe*. 4(1), 20–24.
- Fitriani, A., Sawitri, N. E., Khatrina, S. D., & Nadifah, F. (2024). *Sansevieria*

- trifasciata Var. Laurentii ethanol extract can inhibit the growth of *Klebsiella pneumoniae*. *Journal of Indonesian Medical Laboratory and Science*, 88–95. <https://doi.org/10.53699/joimedlabs.v5i2.217>
- Fitriyana, R., Fauzi, M., & Ramadhani, J. (2024). Formulasi Sediaan Cushion dari Cangkang Telur Bebek dan Uji Nilai SPF dengan Metode Spektrofotometri Uv-Vis Formulation of Cushion Preparations from Duck Egg Shells and SPF Value Testing Using the UV-Vis Spectrophotometry Method. *JURNAL FARMASIMED (JFM)*, c, 94–102. <https://doi.org/10.35451/jfm.v7i1.2312>
- Gao, Shuqi, Zhe Sui, Qian Jiang, Y. J. (2024). Functional Evaluation of Niosomes Utilizing Surfactants in Nanomedicine Applications. *International Journal of Nanomedicine*, 10283–10305.
- Gharbavi, M., Amani, J., Kheiri-Manjili, H., Danafar, H., & Sharafi, A. (2018). Niosome: A Promising Nanocarrier for Natural Drug Delivery through Blood-Brain Barrier. *Advances in Pharmacological Sciences*, 2018. <https://doi.org/10.1155/2018/6847971>
- Gharge, S., Hiremath, S. I., Kagawad, P., Jivaje, K., & Palled, M. S. (2021). Curcuma zedoaria Rosc (Zingiberaceae): a review on its chemical , pharmacological and biological activities. *Future Journal of Pharmaceutical Sciences*, 1–9. <https://doi.org/10.1186/s43094-021-00316-1>
- Ghasemi, A., & Zahediasl, S. (2012). Normality Tests for Statistical Analysis: A Guide for Non-Statisticians. *Endocrinology & Metabolism*, 10(2), 486–489. <https://doi.org/10.5812/ijem.3505>
- Ghica, M. V., & Hîrj, Mircea, Dumitru, Lupuleasa, and C.-E. D.-P. (2016). Flow and Thixotropic Parameters for Rheological. *Molecules*. <https://doi.org/10.3390/molecules21060786>
- Ghica, M. V., Hîrjau, M., Lupuleasa, D., & Dinu-Pîrvu, C.-E. (2016). Flow and Thixotropic Parameters for Rheological Characterization of Hydrogels Mihaela. *Molecules*, 21(786), 1–17. <https://doi.org/10.3390/molecules21060786>
- Gunarti, N. S., Carnia, S., Fikayuniar, L., Farmasi, F., Buana, U., & Karawang, P. (2021). Uji Aktivitas Antibakteri Ekstrak Daun Gedi (*Abelmoschus manihot* L.) Terhadap bakteri penyebab Jerawat 1,2,3. 1, 10–16.

- Gustaman, F., Yuliana, A., & Nurahman, R. P. (2023). Formulasi dan Uji Sifat Fisik Lip tint Beras merah (*Oryza nivara* s . d . sharma & shastry) dengan Kombinasi Buah naga (*Hylocereus costaricensis*). *Prosiding Seminar Nasional Diseminasi Penelitian Volume*, 3(September), 250–260.
- Hana, W., Gerung, P., & Antasionasti, I. (2021). *Antibacterial Activity Test Of Belimbing Botol Leaf Extract (Averrhoa bilimbi L .) Againt The Growth of Propionibacterium acne , An Acne-Causing Bacteria*. 10(November).
- Hendrix, D., & McKeon, Jessica ,Kay, W. (2019). Behavior of Colloidal Nanosilica in an Ultrahigh Performance Concrete Environment Using Dynamic Light Scattering. *Materials Science and Engineering*. <https://doi.org/10.3390/ma12121976>
- Hossain, L., Lim, L. Y., Hammer, K., Hettiarachchi, D., & Locher, C. (2022). A Review of Commonly Used Methodologies for Assessing the Antibacterial Activity of Honey and Honey Products. <https://doi.org/https://doi.org/10.3390/antibiotics11070975>
- Hossain, T. J. (2024). Methods for screening and evaluation of antimicrobial activity : A review of protocols , advantages , and limitations. *European Journal of Microbiology and Immunology*. <https://doi.org/10.1556/1886.2024.00035>
- Hou, H., Xu, Z., Takeda, Y. S., Powers, M., Yang, Y., Hershberger, K., Hanscom, H., Svenson, S., Simhadri, R. K., & Vegas, A. J. (2023). Quantitative biodistribution of nanoparticles in plants with lanthanide complexes. *Scientific Reports*, 0123456789, 1–8. <https://doi.org/10.1038/s41598-023-47811-4>
- Indalifiany, A., & Suryani, Vica Aspadiah, Rifa’atul Mahmudah, R. A. (2023). Formulasi Gel dari Niosom Elastik Span 80 Ekstrak Etanol Rimpang Etlingera alba dengan Variasi Karbopol sebagai Gelling Agent. *Jurnal Sains Dan Kesehatan*, 5(5), 675–684. <https://doi.org/https://doi.org/10.25026/jsk.v5i5.2000> Copyright
- Indryani, V., Chiuman, L., Wijaya, L. L., Lister, G., & Grandis, L. (2020a). Antibacterial Effect of Curcuma zedoaria Extract on Bacillus cereus and Staphylococcus epidermidis. *Althea Medical Journal*, 7(March), 6–10. <https://doi.org/https://doi.org/10.15850/amj.v7n1.1886>

- Indryani, V., Chiuman, L., Wijaya, L. L., Lister, G., & Grandis, L. (2020b). *Antibacterial Effect of Curcuma zedoaria Extract on Bacillus cereus and Staphylococcus epidermidis*. 7(March), 6–10.
- Ira Rahmiyanti, V. N. (2021). *Farmakognosi*. (E. Santoso, Ed.) Tasikmlaya: Rumah Cemerlang.
- Jain, A. K., & Thareja, S. (2019). In vitro and in vivo characterization of pharmaceutical nanocarriers used for drug delivery. *Artificial Cells, Nanomedicine and Biotechnology*, 47(1), 524–539. <https://doi.org/10.1080/21691401.2018.1561457>
- Jazani, R. S., Sipos, B., & Haspel, H. (2022). Quality by Design-Driven Zeta Potential Optimisation Study of Liposomes with Charge Imparting Membrane Additives. *Pharmaceutics*. <https://doi.org/https://doi.org/10.3390/pharmaceutics14091798>
- Joanne Odelia Gani, Fiska Maya Wardhani, E. T. (2021). Uji Toksisitas Akut Ekstrak Kunyit Putih (*Curcuma zedoaria*) Pada Ginjal tikus Wistar Jantan. *Majalah Kesehatan*, 8, 192–198.
- Julyanti, Ai Rian, Annissya, Widia Primi, Fauzan Sebastian, Ramadhan, Vilsa Purnama, N. N. N. (2025). Formulasi, Karakterisasi, Dan Stabilitas Gel Niosom Ekstrak Kulit Nanas (*Ananas Comosus* (L.) Merr) Sebagai Antioksidan. *Pharmacoscript*, 3(2), 1–12.
- Kartika, D., Suci, P. R., Ikhda, C., & Hamidah, N. (2021). *Formulasi Sediaan Masker Gel Peel Off Ekstrak Temu Putih (Curcuma zedoaria) SEBAGAI ANTI JERAWAT*. 351–358.
- Kementrian Kesehatan Republik Indonesia. (2017). *Farmakope Herbal Indonesia*. Kementrian Kesehatan Republik Indonesia.
- Kerdmanee, K., & Phaechamud, T. (2022). *Thermoresponsive Azithromycin-Loaded Niosome Gel Based on Poloxamer 407 and Hyaluronic Interactions for Periodontitis Treatment*.
- Khotimah, H., & Anggraeni, E. W. (2017). Karakterisasi Hasil Pengolahan Air Menggunakan Alat Destilasi. *Jurnal Chemurgy*, 01(2), 34–38.
- Kshirsagar, M. M., Dodamani, A. S., Karibasappa, G. N., Vishwakarma, P. K., & Vathar, J. B. (2019). *Antibacterial activity of garlic extract on cariogenic*

- bacteria : An in vitro study*. 165–168. <https://doi.org/10.4103/ayu.AYU>
- Ksi, E. (2024). *Citric Acid : Properties , Microbial Production , and Applications*.
- Kumar, P., & Das, A. (2023). Acid mantle : What we need to know Surface pH. *Indian Journal of Dermatology, March*. <https://doi.org/10.25259/IJDVL>
- Lasanta, C., Cejudo, C., Gómez, J., & Caro, I. (2023). Influence of Prefermentative Cold Maceration on the Chemical and Sensory Properties of Red Wines Produced in Warm Climates. *Processes*, 11(2). <https://doi.org/10.3390/pr11020374>
- Lens, M. (2025). Niosomes as Vesicular Nanocarriers in Cosmetics : Characterisation , Development and Efficacy. *Pharmaceutics*. <https://doi.org/https://doi.org/10.3390/pharmaceutics17030287>
- Lestari, A., Puspadina, V., Ikhdha, C., & Hamidah, N. (2020). *Formulasi Dan Uji Mutu Fisik Ekstrak Temu Putih (Curcuma zedoaria) Sebagai Body Scrub Antibakteri*. 372–379.
- Lestari, U., Muhaimin, M., Yuhana, Y., & Yuliawati, Y. (2023). Physical Properties of Peel-Off Gel Mask Ethanol Extract of Surian Leaves (Toona sinensis) as an Antioxidant Sifat Fisik Masker Gel Peel-Off Ekstrak Etanol Daun Surian (Toona sinensis) Sebagai Antioksidan. *Indonesian Journal of Pharmaceutical Science and Technology*, 1(1).
- Liga, S., Paul, C., Moacă, E. A., & Péter, F. (2024). Niosomes: Composition, Formulation Techniques, and Recent Progress as Delivery Systems in Cancer Therapy. *Pharmaceutics*, 16(2). <https://doi.org/10.3390/pharmaceutics16020223>
- Lumentut, N., Jaya, H., & Melindah, E. (2018). *Formulasi dan Uji Stabilitas Fisik Sediaan Krim Ekstrak Etanol Kulit Buah Pisang Goroho (Musa acuminata L .) Konsentrasi 12 . 5 % Sebagai Tabir Surya*. 9(2), 42–46.
- Maciel, N., & Criley, R. A. (2003). *Morphology , Growth and Flowering Behavior of Curcuma zedoaria*. 111–116.
- Maguire, C. M. (2018). Characterisation of particles in solution – a perspective on light scattering and comparative technologies. *Science and Technology of Advanced Materials*, 19(1), 732–745. <https://doi.org/10.1080/14686996.2018.1517587>

- Manaia, E. B., Abuçafy, M. P., Chiari-Andréo, B. G., Silva, B. L., Oshiro Junior, J. A., & Chiavacci, L. A. (2017). Physicochemical characterization of drug nanocarriers. *International Journal of Nanomedicine*, 12, 4991–5011. <https://doi.org/10.2147/IJN.S133832>
- Marlina, E., Zukhruf, N., Kiromah, W., Rahayu, T. P., Studi, P., Program, F., & Gombong, U. M. (2022). *Facial Wash Ekstrak Metanol Daun Ganitri (Elaeocarpus ganitrus Roxb .) Dengan Variasi Sodium Lauril*. 8(1), 181–190.
- Mawazi, S. M., Ann, T. J., & Widodo, R. T. (2022). *Application of Niosomes in Cosmetics : A Systematic Review*. 1–16.
- Mawazi, S. M., Ge, Y., & Widodo, R. T. (2025). Niosome Preparation Techniques and Structure—An Illustrated Review. *Pharmaceutics*, 17(1). <https://doi.org/10.3390/pharmaceutics17010067>
- Mayslich, C., Grange, P. A., & Dupin, N. (2021). Cutibacterium acnes as an opportunistic pathogen: An update of its virulence-associated factors. *Microorganisms*, 9(2), 1–21. <https://doi.org/10.3390/microorganisms9020303>
- Miatmoko, A., Safitri, S. A., Aquila, F., & Cahyani, D. M. (2021). Characterization and distribution of niosomes containing ursolic acid coated with chitosan layer. *Research in Pharmaceutical Sciences*, 16(December), 660–673. <https://doi.org/10.4103/1735-5362.327512>
- Mishra, J., Bhardwaj, A., & Misra, K. (2018). Curcuma sp .: The Nature ' s Souvenir for High-Altitude Illness. In *Management of High Altitude Pathophysiology*. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-813999-8.00008-2>
- Moammeri, A., Mirzaei, M., & Sahrayi, H. (2023). Materials Today Bio Current advances in niosomes applications for drug delivery and cancer treatment. *Materials Today Bio*, 23(September), 100837. <https://doi.org/10.1016/j.mtbio.2023.100837>
- Mozartha, M., Silvia, P., & Sujatmiko, B. (2019). Perbandingan Aktivitas Antibakteri Ekstrak Curcuma zedoaria dan Bahan Irigasi Natrium Hipoklorit terhadap Enterococcus faecalis. *Jurnal Material Kedokteran Gigi*, 22–29.
- Muhammad, Asril, Mahyarudin, Ika Agus Rini, A, Nurfiriani Junairiah Nur Hidayah, Lisa Ainayal Fatiha, Widya Lestari Senja Ikerismawati, E. D. N.

- (2024). *Bioteknologi Senyawa Antimikroba* (Vol. 2). Yayasan Kita Menulis.
- Mulyadi, M., & Ria, P. (2017). Jurnal Kimia Sains dan Aplikasi Konsentrasi Hambat Minimum (KHM) Kadar Sampel Alang-Alang (*Imperata cylindrica*) dalam Etanol Melalui Metode Difusi Cakram. *Jurnal Kimia Sains Dan Aplikasi*, 20(3), 130–135.
- Niwele, A. (2022). *Uji Aktivitas Antibakteri Ekstrak Etanol Daun Turi (Sesbania grandiflora L) Terhadap Pertumbuhan Stapylococcus aureus Dengan Metode Cakram Jamila Fachrunisa Kabakoran*. 1(2).
- Novia Tapalina1, Tutik1, G. A. R. S. (2022). Pengaruh Metode Ekstraksi Panas Terhadap Aktivitas Antioksidan Ekstrak Kulit Bawang Merah (*Allium cepa* L.). *Jurnal Ilmu Kedokteran Dan Kesehatan*, 9(1), 492–500.
- Nur Musdalifah, Dita Nurlita, D. N., & Najih, Y. A. (2023). Kajian Pengaruh Penggunaan Surfaktan Non Ionik Terhadap Efisiensi Penjerapan Sistem Niosom Pada Sediaan Topikal. *Journal of Pharmacy Science and Technology*, 3(2), 244–253. <https://doi.org/10.30649/pst.v3i2.47>
- Nurdianti, L., Gustaman, F., Kurniady, F., Setiawan, F., & Firmansya, A. (2025). Formulation of a Spray Gel Containing Asiaticoside and Niacinamide Combination for Anti-acne Formulasi Spray Gel Asiaticoside Dengan Kombinasi Niacinamide Sebagai Anti Jerawat. *Indonesian Journal of Pharmaceutical Science and Technology*, 12(2), 152–161. <https://doi.org/https://doi.org/10.24198/ijpst.v12i2.50520>
- Nurhayati, L. S., Yahdiyani, N., Hidayatulloh, A., Peternakan, F., Padjadjaran, U., Bioteknologi, P., Peternakan, F., & Bandung-, J. R. (2020). *Perbandingan Pengujian Aktivitas Antibakteri Starter Yogurt Dengan Metode Difusi Sumuran Dan Metode Difusi Cakram*. 1(September), 41–46. <https://doi.org/10.24198/jthp.v1i2.27537>
- Nurlila, R. U., & Fua, J. La. (2021). Efek Antibakteri Daun Sagu (*Metroxylon sagu* Rottb .) Terhadap Pertumbuhan *Staphylococcus aureus* dan *Escherichia coli*. *Jurnal Mandala Pharmacon Indonesia*, 7(2). <https://doi.org/https://doi.org/10.35311/jmpi.v7i2.141>
- Pardeep Kaur , Ritu Rani , Ajeet Pal Singh, A. P. S. (2024). An Overview of Niosomes. *Journal of Drug Delivery & Therapeutics*, 9(4), 137–146.

<https://doi.org/DOI: http://dx.doi.org/10.22270/jddt.v14i3.6450>

- Pratasik, M. C. M., Yamlean, P. V. Y., & Wiyono, W. I. (2019). *Formulasi Dan Uji Stabilitas Fisik Sediaan Krim Ekstrak Etanol Daun Sesewanua (Clerodendron squamatum Vahl .)*. 8, 261–267.
- Putri, Y. D., Munawaroh, L., & Andriyannto, A. (2026). Formulation and antibacterial activity of black mulberry fruit (*Morus nigra L .*) extract cream against cutibacterium acnes and staphylococcus epidermidis. *Science Midwifery*, 14(1).
- Rahmawati, D. (2019). *Mikrobiologi Farmasi. Dasar dasar Mikrobiologi Untuk Mahasiswa Farmasi*. Pustaka Bary Press.
- Rahmawati, Y., Ningsih, A. W., Rahmawati, Y., Agustin, F., Rohadatul, A., Ariyani, E., D, R. A. R., Charles, I., Farmasi, D. B., Medika, U. A., Farmasi, M. S., Studi, P., Farmasi, S., Kesehatan, F. I., & Medika, A. (2023). Review Artikel: Studi Fitokimia dan Farmakologi Temu Putih(Curcuma zedoaria). *Journal Of Pharmacy Science and Technology*, 4(1), 9–16.
- Rismayuti, B. A., Risa Supriningrum, & Supomo. (2024). Karakterisasi Dan Skrining Fitokimia Ekstrak Bunga Telang (*Clitoria ternatea L.*). *Jurnal Ilmiah Manuntung*, 10(2), 107–117. <https://doi.org/10.51352/jim.v10i2.796>
- Riyanto, Y., & Haryanto. (2023). *Pengaruh Lama Penyimpanan Ekstrak Terhadap Kadar Pinostrobin Dalam Ekstrak Etanol Temukunci (Kaemferia pandurata, Roxb).* 2, 174–184.
- Rowe, R. C., Sheskey, P. J., & Owen, S. C. (2006). *Handbook of Pharmaceutical Excipients (FIFTH EDIT)*. Pharmaceutical Press.
- Rowe, R. C., Sheskey, P. J., & Owen, S. C. (2009). *Handbook of Pharmaceutical Excipients (SIXTH EDIT)*. Pharmaceutical Press.
- Rury Trisa Utami, M.Biomed Ilvira Ulpa Ismail, Amelinda Syafrawi Dinata, M.Biomed Annissa Delfira, M. B., Nisha Dharmayanti Rinarto, Mitha Safitri, Novi Afrianti, Diani Mega Sari, A. A. H., Indah Fitriani, Rizka Putri Alti, . Resi Novia, & ISBN. (2023). *Anfisman Anatomi & Fisiologi Manusia (S. & Efitra (ed.))*. PT. Sonpedia Publishing Indonesia.
- Sari, R. P., & Laoli, M. T. (2018). *Karakterisasi Simplisia Dan Skrining Fitokimia Serta Analisis Secara Klt (Kromatografi Lapis Tipis) Daun Dan Kulit Buah*

- Jeruk Lemon (Citrus limon (L .) Burm . f .).* 82–93.
- Seba, M. C., & Y, G. J. (2022). A Brief Review on Isoxazole Derivatives as Antibacterial Agents. *International Journal of Research and Review*, 9(9), 321–333.
- Sguizzato, M., Pepe, A., Baldisserotto, A., Barbari, R., Montesi, L., Drechsler, M., Mariani, P., & Cortesi, R. (2023). *Niosomes for Topical Application of Antioxidant Molecules : Design and In Vitro Behavior*. 1–16.
- Soripada, T. A., Tandanu, E., & Ikhtiari, R. (2023). *The antimicrobial study of white turmeric (Curcuma zedoaria) extracted using deep eutectic solvent (DES) and ultrasonication.* 15(3), 229–234. <https://doi.org/10.24114/jpkim.v15i3.49349>
- Souza, A. C. De, Sipoli, C. C., Caroline, A., Aranha, R., Samulewski, R. B., Nogueira, G., Defendi, R. O., Suzuki, M., & Carolina, M. (2026). *Applicability of Nanoemulsions for the Incorporation of Bioactive Compounds in Cosmetics : A Review.* <https://doi.org/10.1021/acsomega.5c08224>
- Suryani, N., Komala, I., Akhsani, L. W., Dahlizar, S., & Suzanti, O. (2024). Physical-chemical stability test on spray gel with active compound ethyl p-methoxycinnamate (Kaempferia galanga Linn .) And menthol , using combination gelling agent na cmc and copovidone. *Jurnal Ilmu Kefarmasian Indonesia*, 22(1), 307–321.
- Tabatabaie-mehr, H., Haddadi, R., Isfahani-nia, S., & Vafaei, S. Y. (2025). A Novel Cationic Niosome Formulation for Topical Delivery of Adapalene. *BioMed Research International*, 2025. <https://doi.org/10.1155/bmri/8874333>
- Trisnaputri, D. R., Isrul, M., Hazan, N., Ode, W., Fitriah, I., Anggriani, F., & Alani, F. W. (2024). *Uji Aktivitas Antimikroba Ekstrak Etanol Rimpang Temu Hitam (Curcuma aeruginosa Roxb .) terhadap Staphylococcus epidermidis , Escherichia coli dan Candida albicans.* 10(2), 618–627.
- Uniyal, P., Puri, D., & Nainwal, P. (2023). *Establishing correlations between different spindle and rpm for viscosity determination.* 12(2), 1–3.
- Vasam, M., Korutla, S., & Ashok, R. (2023). Acne vulgaris : A review of the pathophysiology , treatment , and recent nanotechnology based advances. *Biochemistry and Biophysics Reports*, 36(September), 101578.

<https://doi.org/10.1016/j.bbrep.2023.101578>

- Vitorino, A., Neto, D. S., Balla, Q., Candido, T. M., Rosado, C., Baby, R., Vieira, F., & Solino, L. (2023). *Effect of an Emollient Emulsion Containing 15 . 0 % of Caprylic / Capric Triglyceride on the Urocanic Acid of the Stratum Corneum*. <https://doi.org/https://doi.org/10.3390/ life13040876>
- Wahyuningsih, S., Yunita, I., Sundari, U. Y., Nurmallasari, E., Suryandani, H., Pagalla, D. B., Kalalinggi, S. Y., Alpian, Ramlah, & Nasrullah, M. (2024). Ekstraksi Bahan Alam. In C. E. Sundari, Yolla Sundari S.TP., M.Si (Ed.), *Researchgate* (Issue March).
- Wina Safutri, Dewi Damayanti Abdul Karim, M. F. (2025). Skrining Fitokimia Simplisia Di Kabupaten Pringsewu Wina. *Jurnal Farmasi Universitas Aisyah Pringsewu*, 4, 23–27.
- Witika, B. A., Bassey, K. E., Demana, P. H., Siwe-noundou, X., & Poka, M. S. (2022). 14. Những tiến bộ hiện tại trong việc cung cấp thuốc Niosomal chuyên biệt Sản xuất, đặc tính và ứng dụng cung cấp thuốc.pdf. *International Journal of Molecular Sciences*. <https://doi.org/https://doi.org/10.3390/ijms23179668>
- Yustian, A. A., Darsono, P. V., Hakim, A. R., & Dede Mahdiyah. (2025). Aktivitas Antibakteri Ekstrak Daun Mahang (*Macaranga triloba* (Thunb.) Mull. Arg) terhadap *Propionibacterium acnes*. *Sains Medisina*, 3(3), 104–111.
- Zhou, Y., Zhu, Y., & Wong, W. K. (2023). Statistical tests for homogeneity of variance for clinical trials and recommendations. *Contemporary Clinical Trials Communications*, 33(September 2022), 101119. <https://doi.org/10.1016/j.conctc.2023.101119>
- Zulfa, K., Widodo, F., & Eka Puspita, O. (2020). Pengaruh Perbedaan Konsentrasi Surfaktan Non Ionik terhadap Karakteristik Niosom Pterostilben. *Pharmaceutical Journal of Indonesia*, 6(1), 21–26. <https://doi.org/10.21776/ub.pji.2020.006.01.4>