

DAFTAR PUSTAKA

- Afriani, Sk., Wardani, V. D., & Puspita Ade Agustin, M. R. (2021). Formulasi dan Uji Efektivitas Antibakteri Sediaan Gel Berbahan Aktif Water Kefir *Kartini Afriani*. 6(2), 123–131.
- Aini, D. M., & Hidayat, R. (2023). *Uji Organoleptik Dan Uji Fisik Pada Sediaan Gel Handsanitizer Ekstrak Aloe Vera*. 1(1), 1–4.
- Ambulay, J. P., Rojas, P. A., Timoteo, O. S., Barreto, T. V, Colarossi, A., & Inchi, S. (2020). Effect of the emulsion of Sacha Inchi (Plukenetia huayabambana) oil on oxidative stress and in flammation in rats induced to obesity. *Journal of Functional Foods*, 64(February 2019), 103631. <https://doi.org/10.1016/j.jff.2019.103631>
- Andiarna, F., Hidayati, I., Agustina, E., & Purnamasari, R. (2026). *Aplikasi Gel Symbiotic Culture of Bacteria dan Yeast Kombucha pada Luka Sayat dan Bakar Mencit (Mus musculus) Application of Symbiotic Culture of Bacteria and Yeast Kombucha Gel on Incision and Burn Wounds in Mice (Mus musculus)*. 10(1).
- Armelia, S., Sari, D. K., Rahmawati, S., & Putri, D. K. (2025). Sifat Fisik Sediaan Emulgel Minyak Esensial Daun Eucalyptus (Eucalyptus globulus). *Jurnal Ilmiah Pharmacy*, 12(2), 38–50.
- Azahra, Z. K. (2023). Pengaruh Katekin dalam Teh Kombucha sebagai Agen Alami Antipenuaan Kulit: Reviu. *Integrasi: Jurnal Studi Islam dan Humaniora*, 1(3), 167–180. <https://doi.org/10.56114/integrasi.v1i3.10265>
- Bimantoko, F., Pamudji, G., & Diyah, E. (2025). Jurnal Ilmu Kesehatan Masyarakat Formula Gel Ekstrak Daun Kemangi (Ocimum Sanctum L .). *Jurnal Ilmu Kesehatan Masyarakat*, 663–671.
- Bishop, P., Pitts, E. R., Budner, D., & Thompson-Witrick, K. A. (2022). Kombucha: Biochemical and microbiological impacts on the chemical and flavor profile. *Food Chemistry Advances*, 1(1), 1–9. <https://doi.org/10.1016/j.focha.2022.100025>
- Cahyani, T. D., Khoirin, K., & Tari, M. (2023). Gambaran Tingkat Pengetahuan Dan Perilaku Pengobatan Acne Vulgaris Dikalangan Pelajar Sma Pgri 268 Pangkalan Kersik Kecamatan Tungkal Jaya. *Jurnal Ilmiah Bakti Farmasi*, 8(1), 33–40. <https://doi.org/10.61685/jibf.v8i1.99>
- Chandra, P. P. B., Falestin, S. L. K., & Musdhalifah. (2025). Evaluasi Sediaan Gel Ekstrak Etanol 96 % Daun Jambu Biji (Psidium Guajava L .) Dengan Carbopol Ultrez 20 Sebagai Gelling Agent. *Jurnal Farmamedika*, 10(1), 86–97.
- Dambur, A. M. R., Malluka, R., Anton, N., & Kursia, S. (2019). Formulasi Dan Pengujian Stabilitas Fisik Gel Antijerawat Liofilisat Limbah Kokon Asal Kabupaten Soppeng An. *Pharmacy Medical Journal*, 2(2), 70–74.

- Del Rosso, J. Q., & Kircik, L. (2024). The primary role of sebum in the pathophysiology of acne vulgaris and its therapeutic relevance in acne management. *Journal of Dermatological Treatment*, 35(1), 1–8. <https://doi.org/10.1080/09546634.2023.2296855>
- Dewi, C. C., & Saptarini, N. M. (2016). Farmaka Farmaka. *Farmaka*, 14(3), 1–10.
- Dewi, I. R., Miranti, I. P., & Lestari, A. D. (2023). *Formulasi Krim Antibakteri Ekstrak Etanol Bunga Kecombrang (Etlingera. 2(3), 30–39.*
- Fadhilah, F. R., Pakpahan, S. E., Rezaldi, F., Kodariah, L., Wahid, A. A., & Julinda, O. (2023). Uji Daya Hambat Fermentasi Kombucha Teh Bunga Kecombrang (*Etlingera elatior*) Terhadap Pertumbuhan *Escherichia coli* dan *Staphylococcus aureus*. *Prosiding Asosiasi Institusi Pendidikan Tinggi Teknologi Laboratorium Medik Indonesia*, 2, 200–211.
- Fadhilah, F. R., Pakpahan, S., Rezaldi, F., Kusmiran, E., Cantika, E., Julinda, O., & Muhammad, R. (2024). Potensi Antimikroba Pada Teh Kombucha Bunga Kecombrang (*Etlingera elatior*). *The Indonesian Journal of Infectious Diseases*, 10(1), 24–35. <https://doi.org/10.32667/ijid.v10i1.186>
- Farida, S., & Maruzy, A. (2016). Secara Tradisional, Fitokimia dan Aktivitas Farmakologinya Torch Ginger: A review of Its Traditional Uses , Phytochemistry and Pharmacology. *Jurnal Tumbuhan Obat Indonesia*, 9(1), 19–28. <https://www.neliti.com/id/publications/142159/kecombrang-etlingera-elatior-sebuah-tinjauan-penggunaan-secara-tradisional-fitok>
- Febrianti, Dwi, R., Musiam, S., & Kurniawan, D. (2021). AKTIVITAS MINYAK ATSIRI BUNGA LILY (*Lilium auratum*) TERHADAP BAKTERI *Salmonella typhi* Dwi. *Komunitas Farmasi Nasional*, 1(2), 197–203.
- Ferdianti, A. P., Agustina, E., Faizah, H., & Purnamasari, R. (2025). *Effect of Different Concentration of SCOBY Kombucha as an Anti-acne Against Staphylococcus aureus in The Ear of Mice (Mus musculus). 14(2), 1143–1150.* <https://doi.org/10.14421/biomedich.2025.142.1143-1150>
- Gerry Ironika. (2024). Pemanfaatan dan Pelestarian Kecombrang dari Desa Petung Kabupaten Trenggalek. *Babakti: Journal of Community Engagement*, 1(2), 73–79. <https://doi.org/10.35706/babakti.v1i2.52>
- Harborne, J. B. (1998). *Phytochemical Methods* (Third).
- Hidayat dkk., 2018. (2018). Hidayat 2018.pdf. In T. U. Press (Ed.), *Mikrobiologi Industri Pertanian* (hal. 1–217). UB Press. <http://ubpress.ub.ac.id/>
- Hidayati, R., Saptarini, O., & Kuncahyo, I. (2022). Optimasi HPMC K15M , Karbopol 940 , dan Propilen Glikol pada Formula Nanoemulgel Naringenin Metode D-Optimal Mixture Design. *Farmasi Indonesi*, 19(2), 236–245.
- Hussein, R. S., Bin Dayel, S., Abahussein, O., & El-Sherbiny, A. A. (2025). Influences on Skin and Intrinsic Aging: Biological, Environmental, and Therapeutic Insights. *Journal of Cosmetic Dermatology*, 24(2), 1–9. <https://doi.org/10.1111/jocd.16688>

- Indalifiany dkk. (2023). *Jurnal Sains dan Kesehatan (J. Sains Kes.)*. 5(2), 140–148.
- Jakubczyk, K., Nowak, A., Muzykiewicz-Szymańska, A., Kucharski, Ł., Szymczykowska, K., & Janda-Mileczarek, K. (2024). Kombucha as a Potential Active Ingredient in Cosmetics—An Ex Vivo Skin Permeation Study. *Molecules*, 29(5), 2–16. <https://doi.org/10.3390/molecules29051018>
- Jayabalan, R., Malbañ, R. V, Lonñ, E. S., Vitas, J. S., & Sathishkumar, M. (2014). A Review on Kombucha Tea — Microbiology , Composition , Fermentation , Beneficial Effects , Toxicity , and Tea Fungus. *Institute of Food Technologists*, 13, 538–550. <https://doi.org/10.1111/1541-4337.12073>
- Joevanda, S., Salsabilla, N., Qiftiah, M., K, F. S., Rusdi, S., & Efendi, M. R. (2024). *Formulation of an Antibacterial Peel-Off Gel Mask from Kombucha Fermented with Gerga Orange Peel Infusion (Citrus x aurantium L .)*. 4(3), 461–472. <https://doi.org/10.37311/ijpe.v4i3.28769>
- Kamelia, M. W. O. P. S. M. (2023). Analisis Kualitas Teh Kombucha Berdasarkan Jenis Teh Yang Digunakan Marlina. *ORGANISMS*, 3(1), 18–26.
- Kanlayavattanakul, M., & Lourith, N. (2018). Plants and Natural Products for the Treatment of Skin Hyperpigmentation - A Review. *Planta Medica*, 84(14), 988–1006. <https://doi.org/10.1055/a-0583-0410>
- Kartika, M., Ghozaly, M. R., & Mahayasih, P. G. (2024). *Pengaruh Metode Ekstraksi Ultrasonic-Assisted Extraction (UAE) terhadap Kadar Flavonoid Total dan Aktivitas Antioksidan Ekstrak Etanol Daun*. 6(2), 75–89.
- Khairunnisa, A., Yuniarti, R., Dalimunthe, G. I., & Rani, Z. (2025). Journal of Pharmaceutical and Sciences Characterization, Screening, and Antibacterial Activity Assay of Ethanol Extract of Torch Ginger (*Etlingera elatior* (Jack) R.M.Sm) Flowers Against *Staphylococcus aureus* Karakterisasi, Skrining dan Uji Aktivitas Antib. *Jps*, 8(2), 1033–1046. <https://doi.org/10.36490/journal-jps.com>
- Lau, S. H. A. (2019). Jurnal Farmasi Sandi Karsa (JFS). *Jurnal Farmasi Sandi Karsa (JFS)*, V(2), 120–126.
- Luo, X., Dong, M., Liu, J., Guo, N., Li, J., Shi, Y., & Yang, Y. (2024). Fermentation: improvement of pharmacological effects and applications of botanical drugs. *Frontiers in Pharmacology*, 15(1), 1–17. <https://doi.org/10.3389/fphar.2024.1430238>
- Mawli, R. E., Putri, D. A., Dewi, M. P., Alfaini, G. N., Febriani, A., Anggraini, D. A., & Sutanto, A. K. (2025). The potential of pineapple peel waste fermentation as antibacterial and antioxidant agents. *Jurnal Biolokus: Jurnal Penelitian Pendidikan Biologi dan Biologi*, 8(1), 89–98.
- Mayangsari, F. D., Kusumo, D. W., & Muarifah, Z. (2022). Uji karakteristik fisik dan hedonik dari. *Jurnal Ilmiah Manuntung*, 8(2), 302–310.
- McLaughlin, J., Watterson, S., Layton, A. M., Bjourson, A. J., Barnard, E., & McDowell, A. (2019). *Propionibacterium acnes* and *acne vulgaris*: New

- insights from the integration of population genetic, multi-omic, biochemical and host-microbe studies. *Microorganisms*, 7(1), 1–29. <https://doi.org/10.3390/microorganisms7050128>
- Nasution, A. W., Nasution, H. M., Lubis, M. S., & Rahayu, Y. P. (2023). *1, 1 **, 1. 6(4), 1488–1497.
- Nyhan, L. M., Lynch, K. M., Sahin, A. W., & Arendt, E. K. (2022). Advances in Kombucha Tea Fermentation: A Review. *Applied Microbiology*, 2(1), 73–103. <https://doi.org/10.3390/applmicrobiol2010005>
- Ozon, E. A., Burloiu, A. M., Musuc, A. M., Manda, G., Anuta, V., Dinu-pîrvu, C. E., Lupuliasa, D., Neagoe, I. V., Anastasescu, M., Petre, R., Ozon, E. A., Burloiu, A. M., Musuc, A. M., Manda, G., Anuta, V., Dinu-pîrvu, C. E., Lupuliasa, D., Neagoe, I. V., Anastasescu, M., ... Culita, D. C. (2025). *Cellulose-Derived Gels for Topical Delivery : HPMC as a Functional Matrix for Porphyrinic Photosensitizers Functional Matrix for Porphyrinic Photosensitizers*. 1–27.
- Padmakumar, S., Kulkarni, P., Ferris, C. F., Bleier, B. S., & Amiji, M. (2022). Biomedicine & Pharmacotherapy Traumatic brain injury and the development of parkinsonism : Understanding pathophysiology , animal models , and therapeutic targets. *Biomedicine & Pharmacotherapy*, 149(March), 112812. <https://doi.org/10.1016/j.biopha.2022.112812>
- Panca, P., Chandra, B., Listy, S., Falestin, K., & Febriyani, K. (2025). Formulasi Dan Evaluasi Sediaan Gel Ekstrak Etanol 96 % Daun Kelor (Moringa Oleifera L .) Dengan Carbopol Ultrez 10 Sebagai Gelling Agent Formulation And Evaluation Of 96 % Ethanol Extract Gel Preparation Of Moringa Leaf (Moringa oleifera L .) With Carbo. *Jurnal homepage: jofar.afj.ac.id*, 10(1), 15–25.
- Puspita, W., Puspasari, H., Shabrina, A., Farmasi, P. S., Farmasi, A., Pontianak, Y., Timur, P., Barat, K., Farmasi, P. S., Farmasi, F., & Hasyim, U. W. (2021). Formulasi dan Stabilitas Fisik Gel Semprot Ekstrak Daun Buas-buas (Premna serratifolia L .) Formulation and Physical Stability Test Spray Gel of Extract of Buas-buas Leaf (Premna serratifolia L .). *jurnal Farmasi Indonesia*, 2020, 1–119.
- Putra, R. K., Suwandi, E., & Sugito. (2024). Pemanfaatan Tithonia diversifolia Sebagai Bahan Alami Sabun Cair Terhadap Bakteri Staphylococcus aureus Metode Difusi. *Jurnal Laboratorium Khatulistiwa*, 8(1), 234–242.
- Putu, N., Dewi, G., Putu, N., & Leliqia, E. (2022). Dasi NPGD, Leliqia NPE. Review: Studi Kandungan Fitokimia dan Aktivitas Antimikroba Kecombrang (*Etlingera elatior*). 2022;1(1):193-200. *Prosiding Workshop dan Seminar Nasional Farmasi*, 1(1), 193–202.
- Safrina, U., Wardiyah, & Cartika, H. (2022). Evaluation of Total Flavonoid, Total Phenolic, and Antioxidant Activity of *Etlingera elatior* (Jack) R.M.Sm Flower, Fruit, and Leaf. *Majalah Obat Tradisional*, 27(1), 51–59. <https://doi.org/10.22146/mot.72210>

- Sanwal, N., Gupta, A., Bareen, M. A., Sharma, N., & Sahu, J. K. (2023). Kombucha fermentation: Recent trends in process dynamics, functional bioactivities, toxicity management, and potential applications. *Food Chemistry Advances*, 3(July), 100421. <https://doi.org/10.1016/j.focha.2023.100421>
- Selvaraj, S., & Gurumurthy, K. (2023). An overview of probiotic health booster-kombucha tea. *Chinese Herbal Medicines*, 15(1), 27–32. <https://doi.org/10.1016/j.chmed.2022.06.010>
- Sharma, C., & Bhardwaj, N. K. (2019). Biotransformation of fermented black tea into bacterial nanocellulose via symbiotic interplay of microorganisms. *International Journal of Biological Macromolecules*, 132, 166–177. <https://doi.org/10.1016/j.ijbiomac.2019.03.202>
- Sinko, P. J. (2011). *Martin 's physical pharmacy and pharmaceutical sciences Physical Chemical and Biopharmaceutical Principles in the Pharmaceutical Sciences Editor* (D. B. Troy (ed.); Sixth).
- Sintyadewi, P. R., Fitriani, P. P. E., Ayu, I., & Ary, P. (2023). *Jurnal Biologi Tropis Potensi Aktivitas Antibakteri Minuman Fungsional Kombucha Berbahan Dasar Bunga Kecombrang (Etlingera elatior) Berdasarkan Lamanya Waktu Fermentasi*.
- Soemarie, Y. B., Apriliana, A., Ansyori, A. K., & Purnawati, P. (2019). Uji Aktivitas Antibakteri Ekstrak Etanol Bunga Kecombrang (*Etlingera elatior* (Jack) R. M.Sm.) Terhadap Bakteri *Propionibacterium acnes*. *Al Ulum Jurnal Sains Dan Teknologi*, 5(1), 13. <https://doi.org/10.31602/ajst.v5i1.2469>
- Studi, P., Farmasi, S., Kesehatan, F., Pringsewu, U. A., Pringsewu, K., Fitokimia, S., Obat, T., & Pringsewu, K. (n.d.). *Several types of plants used by people in turme*. 23–27.
- Sundoro, V. F., Djannatun, T., & Maharsi, E. D. (2024). Hubungan Personal Hygiene Wajah Terhadap Keparahan Acne Vulgaris Pada Remaja SMA Negeri 3 Jakarta. *Cerdika: Jurnal Ilmiah Indonesia*, 4(9), 753–765. <https://doi.org/10.59141/cerdika.v4i9.614>
- Suwarni, E., & Cahyadi, K. D. (2016). Aktivitas Antiradikal Bebas Ekstrak Etanol Bunga Kecombrang Dengan Metode Dpph Aktivitas Antiradikal Bebas Ekstrak Etanol Bunga Kecombrang (*Etlingera elatior*) Dengan Metode Dpph (Free-Radical Scavenging Activity Of Ethanol Extract Of Kecombrang Flowers (E. *Jurnal Ilmiah Medicamento*, 2(2), 2356–4814.
- Triananda, A. L., & Wijaya, A. (2021). Formulasi Dan Uji Fisik Sediaan Gel Ekstrak Daun Petai Cina (*Leucaena Leucocephala* (Lam .) De . Wit) Dengan Basis Hydroxy Propyl Methyl Cellulose (HPMC) Formulation And Physical Properties Test Of Petai Cina (*Leucaena leucocephala* (Lam .) De . Wit. *Journal homepage: jofar.afj.ac.id*, 6(1), 29–36.
- Ungefroren, H., Kumarasinghe, A., Musfeldt, M., Fiedler, C., Lehnert, H., & Marquardt, J. (2020). *to Suppress TGF β 1-Dependent Cell Migration in Mesenchymal-Subtype Carcinoma Cells*. 1–19.

- Wahidah, S., Saputri, G. A. R., & Nofita. (2024). Formulasi dan Uji Stabilitas Sediaan Gel Ekstrak Etanol Daun Asam Jawa (*Tamarindus indica* L .) dengan Variasi Gelling Agent. *Jurnal Mandala Pharmacon Indonesia*, 10(2), 508–518.
- Wahyuni, Diantini, A., Ghozali, M., & Sahidin. (2021). Jurnal Farmasi Sains dan Praktis etlingera genus : phytochemical screening and anticancer activity. *Jurnal Farmasi Sains dan Praktis*, 7(3), 343–355.
- Winato, B. M., Sanjaya, E., Siregar, L., Kifami, S., Maria, Y., Fau, V., & Mutia, M. S. (2019). Uji Aktivitas Antibakteri Ekstrak Daun Serai Wangi (*Cymbopogon Nardus*) Terhadap Bakteri *Propionibacterium Acnes* Antibacterial Activity Of Serai Wangi Leaf Extract (*Cymbopogon Nardus*) Against *Propionibacterium Acnes* h. 6(1). <https://doi.org/10.31289/biolink.v6i1.2210>