

DAFTAR PUSTAKA

- Abbafati, C., Abbas, K. M., Abbasi, M., Abbasifard, M., Abbasi-Kangevari, M., Abbastabar, H., Abd-Allah, F., Abdelalim, A., Abdollahi, M., Abdollahpour, I., Abedi, A., Abedi, P., Abegaz, K. H., Abolhassani, H., Abosetugn, A. E., Aboyans, V., Abrams, E. M., Abreu, L. G., Abrigo, M. R. M., ... Murray, C. J. L. (2020). Global burden of 369 diseases and injuries in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*, 396(10258), 1204–1222. [https://doi.org/10.1016/S0140-6736\(20\)30925-9](https://doi.org/10.1016/S0140-6736(20)30925-9)
- Ahmadi, N. A. (2024). Psychosocial Impact of Acne in Adolescents: Prevalence, Contributing Factors, and Management Approaches. *Salamat Academic & Research Journal*, 1(1), 47–52. <https://doi.org/10.61438/sarj.v1i1.81>
- Anggi prantika, S., Susanti, D., & Nofita, N. (2024). Uji Aktivitas Antibakteri Ekstrak Etanol Daun Binahong (*Anredera cordifolia* (Ten.) Steenis) Terhadap Bakteri *Staphylococcus epidermidis* Dan *Propionibacterium acnes*. *CERATA Jurnal Ilmu Farmasi*, 15(1), 67–76. <https://doi.org/10.61902/cerata.v15i1.910>
- Ashrafi, H., Havaie, M., & Zarshenas, M. M. (2024). Preparation and evaluation of a mastic gum Peel-off mask as a skin-refreshing product. *Trends in Pharmaceutical Sciences*, 1(10), 57–66. <https://doi.org/10.30476/TIPS.2024.100890.1223>
- Asworo, R. Y., & Widwastuti, H. (2023). Pengaruh Ukuran Serbuk Simplisia dan Waktu Maserasi terhadap Aktivitas Antioksidan Ekstrak Kulit Sirsak. *Indonesian Journal of Pharmaceutical Education*, 3(2), 256–263. <https://doi.org/10.37311/ijpe.v3i2.19906>
- Bakri, A., Sinala, S., & Ratnah, S. (2023). Formulasi Emulgel Ekstrak Ubi Jalar Ungu (*Ipomoea batatas* (L.) Poir.) dengan Variasi Gelling Agent. 9(1), 1–9. <https://doi.org/10.35311/jmpi.v9i1.201>
- BPOM RI. (2010). Peraturan Kepala Badan Pengawas Obat Dan Makanan Republik Indonesia Nomor: Hk. 03.42.06.10.4556 Tentang Petunjuk Operasional Pedoman Cara Pembuatan Kosmetik Yang Baik. *BADANPOM*.
- Brescó, M. S., Harris, L. G., Thompson, K., Stanic, B., Morgenstern, M., O'Mahony, L., Richards, R. G., & Moriarty, T. F. (2017). Pathogenic mechanisms and host interactions in *Staphylococcus epidermidis* device-related infection. *Frontiers in Microbiology*, 8(AUG). <https://doi.org/10.3389/fmicb.2017.01401>
- Chauhan, L., & Gupta, S. (2020). Creams: A Review on Classification, Preparation Methods, Evaluation and its Applications. *Journal of Drug Delivery and Therapeutics*, 10(5-s), 281–289. <https://doi.org/10.22270/jddt.v10i5-s.4430>
- Claudel, J. P., Auffret, N., Leccia, M. T., Poli, F., Corvec, S., & Dréno, B. (2019). *Staphylococcus epidermidis*: A Potential New Player in the Physiopathology of Acne? *Dermatology*, 235(4), 287–294. <https://doi.org/10.1159/000499858>
- Corkovi, I., Pichler, A., Šimunovi, J., & Kopjar, M. (2021). Hydrogels : Characteristics and Application as Delivery Systems of Phenolic and Aroma Compounds. *Foods*, 10, 1252. <https://doi.org/10.3390/foods10061252>
- Cosme, F., Aires, A., Pinto, T., Oliveira, I., & Vilela, A. (2025). A Comprehensive

Review of Bioactive Tannins in Foods and Beverages : Functional Properties , Health Benefits , and Sensory Qualities. *Molecules*, 1–28.

- Dadiono, M. S., & Andayani, S. (2022). Potensi Tanaman Binahong (*Anredera cordifolia*) Sebagai Obat Alternatif Pada Bidang Akuakultur. *Jurnal Perikanan Pantura (JPP)*, 5(1), 156. <https://doi.org/10.30587/jpp.v5i1.3769>
- Devina, R. C. (2022). Uji Fisikokimia Sediaan Emulsi, eLL, Emulgel Ekstrak Etanol Goji Berry (*Lycium barbarum L.*). *MEDFARM: Jurnal Farmasi Dan Kesehatan*, 11(2), 219–228. <https://doi.org/https://doi.org/10.48191/medfarm.v11i2.142>
- Djabourov, M. (2020). *NMR and MRI of Gels* (Issue 23). <https://doi.org/https://doi.org/10.1039/9781788013178>
- Djuwarno, E. N., Hiola, F., & Isa, I. (2021). *Formulasi Sediaan Emulgel Ekstrak Daun Kelor (Moringa oleifera Lam) Dan Uji Aktivitas Antioksidan Menggunakan Metode DPPh*. 1(1), 10–19. <https://doi.org/10.22487/ijpe.v1i1.99457>
- Fitriana, Y. A. N., Fatimah, V. A. N., & Fitri, A. S. (2020). Aktivitas Anti Bakteri Daun Sirih: Uji Ekstrak KHM (Kadar Hambat Minimum) dan KBM (Kadar Bakterisidal Minimum). *Sainteks*, 16(2), 101–108. <https://doi.org/10.30595/sainteks.v16i2.7126>
- Fournière, M., Latire, T., Souak, D., Feuilloley, M. G. J., & Bedoux, G. (2020). *Staphylococcus epidermidis and cutibacterium acnes: Two major sentinels of skin microbiota and the influence of cosmetics*. *Microorganisms*, 8(11), 1–31. <https://doi.org/10.3390/microorganisms8111752>
- Guguluş, D. L., Vâță, D., Popescu, I. A., Pătraşcu, A. I., Halip, I. A., Mocanu, M., & Solovăstru, L. G. (2025). The Epidemiology of Acne in the Current Era: Trends and Clinical Implications. *Cosmetics*, 12(3), 1–16. <https://doi.org/10.3390/cosmetics12030106>
- Hardiansyah, S. C., & Mawarni, C. S. (2023). Pengaruh Konsentrasi Minyak Atsiri Serai Wangi(*Cymbopogonnardus*) Terhadap Stabilitas Formulasi Sediaan Emulgel. *Jurnal Kesehatan: Jurnal Ilmiah Multi Sciences*, 13(1), 48–55. <https://doi.org/10.52395/jkjims.v13i1.362>
- Hasibuan, A. S., & Edrianto, V. (2021). *SOSIALIASI SKRINING FITOKIMIA EKSTRAK ETANOL UMBI BAWANG MERAH (Allium cepa L .)*. 1(1), 80–84. <https://doi.org/10.35451/jpk.v1i1.732>
- Hidayati, N. S., Rija'i, H. R., & Narsa, A. C. (2023). Optimasi Basis Sediaan Masker Gel Peel off dan Skrining Fitokimia Ekstrak Etanol Bunga Telang (*Clitoria ternatea L.*). *Proceeding of Mulawarman Pharmaceuticals Conferences*, 15–17. <https://doi.org/https://doi.org/10.25026/mpc.v17i1.684>
- Hofmann, E., Schwarz, A., Fink, J., Kamolz, L. P., & Kotzbeck, P. (2023). Modelling the Complexity of Human Skin In Vitro. *Biomedicines*, 11(3), 1–17. <https://doi.org/10.3390/biomedicines11030794>
- 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*, 14(2), 97–115. <https://doi.org/10.1556/1886.2024.00035>
- Kartika, S. D., Suci, P. R., Safitri, C. I. N. H., & Kumalasari, N. D. (2021). Formulasi sediaan masker gel peel off ekstrak temu putih (*Curcuma zedoaria*) sebagai anti

- jerawat. *Seminar Nasional Pendidikan Biologi Dan Saintek (SNPBS) Ke-VI*, 351–358. <https://proceedings.ums.ac.id/snpbs/article/view/53>
- Kulkarni, S. V., Gupta, A. K., & Bhawsar, S. (2019). Formulation and Evaluation of Activated Charcoal Peel Off Mask. *International Journal of Pharmacy Research & Technology*, 9(2), 44–48. <https://doi.org/10.31838/ijprt/09.02.06>
- Kunde, V., Sonawane, S., Katkale, A., & Hagavane, S. (2022). Review on Lotion As a Skin Care Products. *Worlds Journal of Pharmacy and Pharmaceutical Sciences*, 11(4), 503–519. <https://doi.org/10.20959/wjpps20224-21601>
- Li, Z., Chen, Z., Chen, H., Chen, K., Tao, W., Ouyang, X. K., Mei, L., & Zeng, X. (2022). Polyphenol-based hydrogels: Pyramid evolution from crosslinked structures to biomedical applications and the reverse design. *Bioact Mater*, 17, 49–70. <https://doi.org/10.1016/j.bioactmat.2022.01.038>
- Lim, W. S., Kim, M. H., Park, H. J., & Lee, M. H. (2024). Characterization of Polyvinyl Alcohol (PVA)/Polyacrylic Acid (PAA) Composite Film-Forming Solutions and Resulting Films as Affected by Beeswax Content. *Polymers*, 16(3). <https://doi.org/10.3390/polym16030310>
- Lotfollahi, Z. (2024). The anatomy, physiology and function of all skin layers and the impact of ageing on the skin. *Wound Practice and Research*, 32(1), 6–10. <https://doi.org/10.33235/wpr.32.1.6-10>
- Martínez, F. J., Álvarez, Catal'an, E. B., L'opez, M. H., & Micol, V. (2021). Phytomedicine Antibacterial plant compounds , extracts and essential oils : An updated review on their effects and putative mechanisms of action. *Phytomedicine*, 90. <https://doi.org/10.1016/j.phymed.2021.153626>
- Matharoo, N., Mohd, H., & Michniak-Kohn, B. (2024). Transferosomes as a transdermal drug delivery system: Dermal kinetics and recent developments. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, 16(1), 1–19. <https://doi.org/10.1002/wnan.1918>
- Mengga, C., Rampe, M., & Sangande, F. (2022). Uji Efektivitas Antibakteri Ekstrak Daun Binahong (*Anredera cordifolia* (Tenore) Steenis) Terhadap Bakteri *Staphylococcus aureus*. *Biofarmasetikal Tropis*, 5(1), 60–65. <https://doi.org/10.55724/jbiofartrop.v5i1.370>
- Mr. Sidharth Ganpati Kadam, & Mr. Deepak J. Kare. (2024). Formulation and Evaluation of Herbal Peel of Mask. *International Journal of Advanced Research in Science, Communication and Technology*, 441–454. <https://doi.org/10.48175/ijarsct-19064>
- Mulangsri, D. A. K. (2020). Profil Aktivitas Antibakteri Dari Dua Jenis Ekstrak Daun Binahong (*Anredera cordifolia* (Ten) Steenis) Terhadap Bakteri *Staphylococcus epidermidis*. *Jurnal Ilmiah PANNMED (Pharmacist, Analyst, Nurse, Nutrition, Midwifery, Environment, Dentist)*, 15(2), 303–307. <https://doi.org/10.36911/pannmed.v15i2.682>
- Musyaropah, R., & Supriyatna, A. (2023). Efektivitas Daun Binahong (*Anredera scandens* (L.) Moq) Sebagai Obat Penyembuhan Berbagai Luka :Review literature. *An Idea Health Journal*, 3(02), 49–54. <https://doi.org/10.53690/ihj.v3i02.159>
- Nafiisah, A., Purnamasari, R., & Mudalianah, S. (2024). Identifikasi Senyawa Metabolit

- Sekunder pada Ekstrak Etanol Daun Binahong. *Jurnal Sosial Dan Sains*, 4(11), 1093–1106. <https://doi.org/10.59188/jurnalsosains.v4i11.27922>
- Nurhayati, L. S., Yahdiyani, N., & Hidayatulloh, A. (2020). Perbandingan Pengujian Aktivitas Antibakteri Starter Yogurt dengan Metode Difusi Sumuran dan Metode Difusi Cakram. *Jurnal Teknologi Hasil Peternakan*, 1(2), 41. <https://doi.org/10.24198/jthp.v1i2.27537>
- Osborne W, D., & Musakhanian, J. (2018). Skin Penetration and Permeation Properties of Transcutol®—Neat or Diluted Mixtures. *AAPS PharmSciTech*, 19(8), 3512–3533. <https://doi.org/https://doi.org/10.1208/s12249-018-1196-8>
- Pehino, A., Fatimawali, F., & Suoth, E. J. (2021). Uji Aktivitas Antibakteri Ekstrak Biji Buah Duku Lansium domesticum Terhadap Bakteri Staphylococcus Aureus Dan Escherichia Coli. *Pharmacon*, 10(2), 818. <https://doi.org/10.35799/pha.10.2021.34030>
- Plantamor. (2024). *Anredera cordifolia (Ten.) Steenis*. PLANTAMOR.
- Podwojniak, A., Tan, I. J., Sauer, J., Neubauer, Z., Rothenberg, H., Ghani, H., Parikh, A. K., & Cohen, B. (2025). Acne and the cutaneous microbiome: A systematic review of mechanisms and implications for treatments. *Journal of the European Academy of Dermatology and Venereology*, 39(4), 793–805. <https://doi.org/10.1111/jdv.20332>
- Purwaningsih, H., Nababan, R. C., & Firmansyah, Y. W. (2025). *Eksplorasi Binahong (Anredera Cordifolia (Ten.) Steenis) Batang Hijau dan Merah: Studi Organoleptik, Mikroskopis dan Skrining Fitokimia*. X(2), 13139–13148. <https://doi.org/10.57151/jsika.v4i2.1618>
- Purwanti, R. A., Farida, Y., & Taurhesia, S. (2022). Formulasi Sediaan Serum Anti Aging dengan Kombinasi dari Ekstrak Buah Tomat (*Lycopersicum esculentum* L.) dan Ekstrak Kulit Buah Semangka (*Citrullus lanatus* Thunb.). *Jurnal Fitofarmaka Indonesia*, 9(2), 19–24. <https://doi.org/10.33096/jffi.v9i2.864>
- Putri, C. N., Qornain, W. D., Bamahri, F., Yuliasuti, G. E., & Kurniawan, M. (2024). Klasifikasi Jenis Jerawat pada Data Citra Jerawat Wajah Menggunakan Convolutional Neural Network. *TIN: Terapan Informatika Nusantara*, 5(2), 172–181. <https://doi.org/10.47065/tin.v5i2.5231>
- Rahmi, P., Ariska, D., & Sari, F. (2022). Formulasi Sediaan Gel Antibakteri Ekstrak Etanol Daun Binahong (*Anredera cordifolia* (Ten .) Steenis) Dan Uji Aktivitas Terhadap Bakteri *Staphylococcus epidermidis* Fakultas Ilmu Kesehatan Universitas Ubudiyah Indonesia Jln . Alue Naga , Desa Tibang , S. *Journal of Healthcare Technology and Medicine*, 8(2). <https://doi.org/https://doi.org/10.33143/jhtm.v8i2.4208>
- Ramadon, D., McCrudden, M. T. C., Courtenay, A. J., & Donnelly, R. F. (2022). Enhancement strategies for transdermal drug delivery systems: current trends and applications. *Drug Delivery and Translational Research*, 12(4), 758–791. <https://doi.org/10.1007/s13346-021-00909-6>
- Rosiani, U. D., Batubulan, K. S., & Malia Elisiana. (2021). Identifikasi “Acne Vulgaris” Berdasarkan Fitur Warna Dan Tekstur Menggunakan Klasifikasi JST Backpropagation. *Jurnal Informatika Polinema*, 7(2), 7–12.

<https://doi.org/10.33795/jip.v7i2.463>

- Rowe, R., Sheskey, P., & Marian, Q. (2017). *Handbook of pharmaceutical excipients 8th edition.pdf*. 591–592.
- Said, M. A., Utami, R. W., & Khumaira, A. (2023). Uji angka lempeng total (ALT) dan angka kapang khamir (AKK) simplisia kunyit (*Curcuma domestica*). *LPPM Universitas 'Aisyiyah Yogyakarta*, 1, 231–236. <https://proceeding.unisayogya.ac.id/index.php/proseminaslppm/article/view/54>
- Salmannejad, F., Qorab, H., & Ghari, T. (2024). Formulation, Characterization and Optimization of Peel-Off Gel of Soybean Extract as a Face Mask. *Tropical Journal of Natural Product Research*, 8(3), 6544–6551. <https://doi.org/10.26538/tjnpr/v8i3.11>
- Sanjaya, G. M., Ismono, Ishma, E. F., & Mufid, M. F. (2021). Perbedaan Karakteristik Fisio-kimia Ekstrak Daun Binahong Berbatang Merah dan Daun Binahong Berbatang Hijau. *Indonesian Chemistry and Application Journal*, 4(2), 16–20. <https://doi.org/10.26740/icaj.v4n2.p16-20>
- Sawarkar Neha. (2025). *Ethylhexylglycerin in Personal Care Products*. Knowde. <https://periodical.knowde.com/ethylhexylglycerin-in-personal-care-products/>
- Setiyadi, G., & Qonitah, A. (2020). Optimasi Masker Gel Peel-Off Ekstrak Etanolik Daun Sirih (*Piper Betle L.*) dengan Kombinasi Carbomer dan Polivinil Alkohol. *Pharmacon: Jurnal Farmasi Indonesia*, 17(2), 174–183. <https://doi.org/10.23917/pharmacon.v17i2.11976>
- Severn, M. M., & Horswill, A. R. (2023). *Staphylococcus epidermidis* and its dual lifestyle in skin health and infection. *Nature Reviews Microbiology*, 21(2), 97–111. <https://doi.org/10.1038/s41579-022-00780-3>
- 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>
- Sibero, H. T., Sirajudin, A., & Anggraini, D. I. (2019). Prevalensi dan Gambaran Epidemiologi Akne Vulgaris di Provinsi Lampung. *JK Unila Jurnal Kedokteran Universitas Lampung*, 3(2), 308–312. *JK Unila* |, 3(2), 308–312. <https://doi.org/https://doi.org/10.23960/jkunila.v3i2.pp308-312>
- SpecialChem. (2022). *Ethylhexylglycerin*. SpecialChem.
- Stéphanie. (2021). *What is “Ethylhexylglycerin” and what is its purpose?* Typology.
- Sukmawati, A., Laeha, M. N., & Suprpto. (2020). Efek Gliserin sebagai Humectan Terhadap Sifat Fisik dan Stabilitas Vitamin C dalam Sabun Padat. *Pharmacon: Jurnal Farmasi Indonesia.*, 14(02). <http://journals.ums.ac.id/index.php/pharmacon>
- Syahputra, A., Anggreni, S., Handayani, D. Y., & Rahmadhani, M. (2021). Pengaruh Makanan Akibat Timbulnya Acne Vulgaris (Jerawat) Pada Mahasiswa Mahasiswi Fk Uisu Tahun 2020. *Jurnal Kedokteran STM (Sains Dan Teknologi Medik)*, 4(2), 75–82. <https://doi.org/10.30743/stm.v4i2.62>
- Tania, A., Pramesty, A., & Daniatiek, S. (2025). Formulasi dan Optimasi Masker Gel Peel-Off Minyak Peppermint Dengan Desain Faktorial. *Jurnal FARMASINDO*

- Politeknik Indonusa Surakarta*, 9, 370–382. <https://farmasindo.poltekindonusa.ac.id>
- Tungadi, R., Sy. Pakaya, M., & D.as'ali, P. W. (2023). Formulasi dan Evaluasi Stabilitas Fisik Sediaan Krim Senyawa Astaxanthin. *Indonesian Journal of Pharmaceutical Education*, 3(1), 117–124. <https://doi.org/10.37311/ijpe.v3i1.14612>
- Use, I. C. for H. of T. R. for P. for H. (2020). *ICH Harmonised Tripartite Guideline Q1A(R2): Stability Testing of New Drug Substances and Products*. [https://database.ich.org/sites/default/files/Q1A%28R2%29 Step4.pdf](https://database.ich.org/sites/default/files/Q1A%28R2%29%20Step4.pdf)
- Vaou, N., Stavropoulou, E., Voidarou, C. C., & Tsakris, Z. (2022). Interactions between Medical Plant-Derived Bioactive Compounds: Focus on Antimicrobial Combination Effects. *Antibiotics*, 11, 1–23. <https://doi.org/https://doi.org/10.3390/antibiotics11081014>
- Vlad, R. A., Pinte, A., Pinte, C., R  dai, E. M., Antonoaea, P., B  rsan, M., & Ciurba, A. (2025). Hydroxypropyl Methylcellulose—A Key Excipient in Pharmaceutical Drug Delivery Systems. *Pharmaceutics*, 17(6), 1–30. <https://doi.org/10.3390/pharmaceutics17060784>
- Widyaningsih, S., & Chatri, M. (2025). Potensi Senyawa Saponin untuk Pengendalian Penyakit Tanaman. *Jurnal Pendidikan Tambusai*, 9, 3679–3684. <https://doi.org/https://doi.org/10.31004/jptam.v9i1.26214>
- Wulandari, R., Pravitasari, D. N., Indradi, R., & Nugrahandini, A. (2020). Analisis Faktor Risiko Akne Vulgaris Pada Pelajar Hasil studi kasus British Association of Dermatologists , prevalensi kejadian AV Observasional Analitik dengan model penelitian. *CoMPHI Journal*, 3(2), 122–129. <https://doi.org/10.37148/comphijournal.v3i2.110>
- Yadav, S. K., Mishra, M. K., Tiwari, A., & Shukla, A. (2024). Emulgel: a New Approach for Enhanced Topical Drug Delivery. *International Journal of Current Pharmaceutical Research*, 9(1), 15. <https://doi.org/10.22159/ijcpr.2017v9i1.16628>
- Yusuf, A. L., Nugraha, D., Wahianto, P., Indriastuti, M., Ismail, R., & Himah, F. A. (2022). Formulasi Dan Evaluasi Sediaan Gel Ekstrak Buah Pare (Momordica Charantia L.) Dengan Variasi Konsentrasi Carbopol 940. *Pharmacy Genius*, 1(1), 50–61. <https://doi.org/10.56359/pharmgen.v1i01.149>
- Zendrato, R. S., Elfayani, R., & Nursal, F. K. (2025). Kajian Literatur: Fungsi Propilen Glikol sebagai Humektan Terhadap Sifat Fisik Sediaan Semisolid. *Majalah Farmasetika*, 10(1), 17–32. <https://doi.org/https://doi.org/10.24198/mfarmasetika.v10i1.42651>
- Zubaydah, W. O. S., & Fandinata, S. S. (2020). Formulasi Sediaan Masker Gel Peel-Off dari Ekstrak Buah Tomat (Solanum Lycopersicum L.) Beserta Uji Aktivitas Antioksidan. *Journal Syifa Sciences and Clinical Research*, 2(2), 73–82. <https://doi.org/10.37311/jsscr.v2i2.6980>