

DAFTAR PUSTAKA

- Achmad, M. N., Masengi, A. S. R., Posangi, J., Fatimawali, & Mambo, C. D. (2024). Skrining Fitokimia Dan Uji Aktivitas Antibakteri Ekstrak Etanol Daun Binahong (*Anredera Cordifolia* (Ten.) Steenis) Terhadap *Streptococcus mutans* Dan *Escherichia coli*. *Jurnal Bios Logos*, 14(3), 1–13. <https://doi.org/10.35799/Jbl.V14i3.54394>
- Ali, I., Shabbir, A., & Raza, M. J. (2019). Prevalence And Psychological Impact Of Acne Vulgaris In Female Undergraduate Medical Students Of Rawalpindi And Islamabad, Pakistan. *Cureus*, 11(5), E4652. <https://doi.org/10.7759/Cureus.4652>
- Allen, L. V., & Ansel, H. C. (2011). *Ansel's Pharmaceutical Dosage Forms And Drug Delivery Systems (9th Ed.)*.
- Alshammrie, F. F., Alshammari, R. M., Alrashidi, A. A., Alrashidi, M. A., & Alshammari, A. A. (2022). Prevalence And Self-Medication For Acne Among Students Of Health-Related Science Colleges At King Saud University In Riyadh Region, Saudi Arabia. *Medicina*, 58(6), 757. <https://doi.org/10.3390/Medicina58060757>
- Ana, K. D., Kep, S., Kep, M., & Integumen, A. S. (2021). *BAB I Sistem Integumen*. 1–35.
- Anggraeni, D., Kaniawati, M., & Jafar, G. (2023). Pendekatan Nanoteknologi Untuk Penghantaran Bahan Aktif Farmasi Dalam Terapi Acne Vulgaris. *Majalah Farmasetika*, 8(4), 283–304.
- Apriyanti, E., Agustina, D., Kuntoadi, G., Pora, Y., Wida, A., Nua, E., Adesta, R., Guru, Y., Pitang, Y., & Azis, P. (2021). *Teori Anatomi Tubuh Manusia*.
- ASEAN Cosmetics Committee. (2016). ASEAN cosmetic stability testing guidelines. ASEAN Secretariat.
- Aulton, M. E., & Taylor, K. M. G. (Eds.). (2022). *Aulton's pharmaceuticals: The design and manufacture of medicines (6th ed.)*. Elsevier.
- Azwanida, N. N. (2015). A review on the extraction methods use in medicinal plants, principle, strength and limitation. *Medicinal & Aromatic Plants*, 4(3), 1-6. <https://doi.org/10.4172/2167-0412.1000196>
- Bajaj, S., Singla, D., & Sakhuja, N. (2012). Stability testing of pharmaceutical

- products. *Journal of Applied Pharmaceutical Science*, 2(3), 129–138. <https://doi.org/10.7324/JAPS.2012.2322>
- Balouiri, M., Sadiki, M., & Ibensouda, S. K. (2016). Methods For In Vitro Evaluating Antimicrobial Activity : A Review. *Journal Of Pharmaceutical Analysis*, 6(2), 71–79. <https://doi.org/10.1016/J.Jpha.2015.11.005>
- Bayani, F. (2016). Analisis Fenol Total Dan Uji Aktivitas Antioksidan Dari Ekstrak Buah Sentul (*Sandoricum Koetjape Merr*). *Hydrogen: Jurnal Kependidikan Kimia*, 4(1), 55. <https://doi.org/10.33394/Hjkk.V4i1.47>
- Becker, K., Heilmann, C., & Peters, G. (2014). *Coagulase-Negative Staphylococci*. 889(I). <https://doi.org/10.1128/CMR.00109-13>
- Bonacucina, G., Cespi, M., Misici-Falzi, M., & Palmieri, G. F. (2009). Rheological, mucoadhesive and release properties of Carbopol gels. *Journal of Drug Delivery Science and Technology*, 19(1), 47-54. [https://doi.org/10.1016/S1773-2247\(09\)50006-5](https://doi.org/10.1016/S1773-2247(09)50006-5)
- BPOM RI. (2010). Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia Nomor HK.03.1.23.12.10.11983 tentang Pedoman Cara Pembuatan Kosmetika yang Baik. Badan Pengawas Obat dan Makanan Republik Indonesia.
- Brescó, M. S., Harris, L. G., Thompson, K., Stanic, B., Morgenstern, M., Mahony, L. O., Richards, R. G., & Moriarty, T. F. (2017). *Pathogenic Mechanisms And Host Interactions In Staphylococcus Epidermidis Device-Related Infection*. 8(August). <https://doi.org/10.3389/Fmicb.2017.01401>
- Brooks, G. F., Carroll, K. C., Butel, J. S., Morse, S. A., & Mietzner, T. A. (2023). Jawetz, Melnick, & Adelberg's medical microbiology (29th ed.). McGraw Hill.
- Brown, M. M., & Horswill, A. R. (2020). *Staphylococcus Epidermidis — Skin Friend Or Foe*. 1–6.
- Brunton, L. L., Knollmann, B. C., & Hilal-Dandan, R. (Eds.). (2023). Goodman & Gilman's the pharmacological basis of therapeutics (14th ed.). McGraw Hill.
- Cheung, G. Y. C., & Otto, M. (2025). Staphylococcus Epidermidis: Key To Understanding Biofilms, Commensalism, And More. *Nature Reviews Microbiology*, 23(2), 123–137. <https://doi.org/10.1038/S41579-024-00957-8>

- Choiri, S., Gunarso, S., & Prasetiawan, H. (2024). Formulasi dan karakterisasi masker peel-off ekstrak daun binahong (*Anredera cordifolia*) dengan variasi konsentrasi PVA dan HPMC. *Jurnal Sains dan Kesehatan*, 6(1), 15-24.
- Chung, E., Ren, G., Johnston, I., Matharu, R. K., Ciric, L., Walecka, A., & Cheong, Y. (2023). Applied Methods To Assess The Antimicrobial Activity Of Metallic-Based Nanoparticles. *Bioengineering*.
<https://doi.org/10.3390/Bioengineering10111259>
- Cowan, M. M. (1999). Plant products as antimicrobial agents. *Clinical Microbiology Reviews*, 12(4), 564-582.
<https://doi.org/10.1128/CMR.12.4.564>
- Dadiono, M. S., & Andayani, S. (2022). Potensi Tanaman Binahong (*Anredera cordifolia*) Sebagai Obat Alternatif Pada Bidang Akuakultur. *Jurnal Perikanan Pantura (JPP)*, 5, 156–162.
- Davis, W. W., & Stout, T. R. (1971). Disc plate method of microbiological antibiotic assay. *Applied Microbiology*, 22(4), 665.
<https://doi.org/10.1128/am.22.4.659-665.1971>
- Dewi, C. T., Wahianto, P., & Nugraha, D. (2023). Formulasi Dan Evaluasi Fisik Sediaan Masker Gel Peel-Off Ekstrak Daun Katuk (*Sauropus Androgynus* L) Dengan Variasi Konsentrasi Carbopol 940. *Pharmacy Genius*, 2(2), 104–112.
<https://doi.org/10.56359/Pharmgen.V2i2.275>
- Dreno, B., Dekio, I., Baldwin, H., Demessant, A. L., Dagnelie, M. A., & others. (2023). Acne microbiome: From phyla to phylotypes. *Journal of the European Academy of Dermatology and Venereology*, 38(4), 657. <https://doi.org/10.1111/jdv.19540>
- Efimova, S. S., Zakharova, A. A., & Ostroumova, O. S. (2021). Is the membrane lipid matrix a key target for action of pharmacologically active plant saponins. *International Journal of Molecular Sciences*, 22(6), 3167.
<https://doi.org/10.3390/ijms22063167>
- Dinić, M., Verpile, R., Burgess, J. L., Ming, J., Marjanovic, J., Beliz, C. N., Plano, L., Hower, S., Thaller, S. R., Banerjee, S., Lev-Tov, H., Tomic-Canic, M., & Pastar, I. (2024). *Multi-Drug Resistant Staphylococcus Epidermidis From Chronic Wounds Impair Healing In Human Wound Model. Wound Repair And*

- Regeneration*, 32(6), 799–810. <https://doi.org/10.1111/Wrr.13231>
- Fabbrocini, G., Annunziata, M. C., Arco, V. D., Vita, V. De, Lodi, G., Mauriello, M. C., Pastore, F., & Monfrecola, G. (2010). *Acne Scars : Pathogenesis , Classification And Treatment. 2010*. <https://doi.org/10.1155/2010/893080>
- Frankel, E. N. (2005). *Lipid oxidation* (2nd ed.). The Oily Press.
- Gafur, A., Ningsih, I. Y., & Sari, R. (2023). Formulation and physical stability test of emulgel from binahong leaves extract (*Anredera cordifolia* (Ten.) Steenis) as antibacterial. *Jurnal Sains dan Kesehatan*, 5(2), 225-233.
- Hallstar. (N.D.). *Olivem® 1000*.
- Handayani, S. (2021). *Anatomi Dan Fisiologi Tubuh Manusia*.
- Harborne, J. B. (1998). *Phytochemical methods: A guide to modern techniques of plant analysis* (3rd ed.). Springer.
- Hariyadi, D. M., Isnaeni, I., Sudarma, S., Suciati, S., & Rosita, N. (2024). Peel-Off Emulgel Mask Of *Cocos Nucifera* L. Extract Using Gelling Agent Carbomer 940 As Antiacne Against *Propionibacterium Acnes* ATCC 11827. *Journal Of Advanced Pharmaceutical Technology & Research*, 15(1), 8–12. <https://doi.org/10.4103/Japtr.Japtr>
- Hay, R. J., Johns, N. E., Williams, H. C., Bolliger, I. W., Dellavalle, R. P., Margolis, D. J., Silverberg, J. I., Swope, D. M., & Naghavi, M. (2021). The Global Burden Of Skin Diseases In 2019. *Journal Of Investigative Dermatology*, 141(12), 2794–2800. <https://doi.org/10.1016/J.Jid.2021.04.035>
- Ikhtiyarini, T. A., & Sari, A. K. (2022). *Efektivitas Penggunaan Basis Gel Pada Sediaan Emulgel Effectiveness Of Basic Use For Emulgel Preparations. 1*(1), 19–25.
- International Council for Harmonisation. (2003). ICH harmonised tripartite guideline: Stability testing of new drug substances and products Q1A (R2). ICH.
- Jawetz, Melnick, & Adelberg. (2007). *Mikrobiologi Kedokteran* (23th Ed.).
- Kalangi, S. J. R. (2014). Histofisiologi Kulit. *Jurnal Biomedik (Jbm)*, 5(3), 12–20. <https://doi.org/10.35790/Jbm.5.3.2013.4344>
- Kathalia, H., Venkatesh, A., & Sathe, N. (2023). Topical film forming clotrimazole emulgel. *Indian Journal of Pharmaceutical Education and*

- Research, 57(2s), s250-s261. <https://doi.org/10.5530/ijper.57.2s.29>
- Kellgren, T., Dwibedi, C., Widerström, M., & Others. (2024). Completed Genome And Emergence Scenario Of The Multidrug-Resistant Nosocomial Pathogen *Staphylococcus Epidermidis* ST215. *BMC Microbiology*, 24, 215. <https://doi.org/10.1186/S12866-024-03367-5>
- Kementerian Kesehatan RI. (2017). Farmakope Herbal Indonesia (Edisi II). Kementerian Kesehatan Republik Indonesia.
- Kementerian Kesehatan RI. (2022). Farmakope Herbal Indonesia (Edisi II) Suplemen I. Kementerian Kesehatan Republik Indonesia.
- Lailiyyah, H., Amaliah, A., & Lisdiana, L. (2023). In silico assay of antibacterial activity of binahong (*Anredera cordifolia*) leaf extract to *Streptococcus pneumoniae*. *E3S Web of Conferences*, 400, <https://doi.org/10.1051/e3sconf/202340002005>.
- Lambers, H., Piessens, S., Bloem, A., Pronk, H., & Finkel, P. (2006). Natural skin surface pH is on average below 5, which is beneficial for its resident flora. *International Journal of Cosmetic Science*, 28(5), 370. <https://doi.org/10.1111/j.1467-2494.2006.00344>.
- Langsrud, S., Steinhauer, K., Lüthje, S., Weber, K., Goroncy-Bermes, P., & Holck, A. L. (2016). Ethylhexylglycerin Impairs Membrane Integrity And Enhances The Lethal Effect Of Phenoxyethanol. *Plos ONE*, 11(10), 1–16. <https://doi.org/10.1371/Journal.Pone.0165228>
- Larasmono, P. A. (2021). *Gambaran Aktivitas Antibakteri Perasan Daun Binahong (Anredera Cordifolia) Pada Pertumbuhan Bakteri Staphylococcus Aureus*.
- Lestari, N. K., Wulandari, R., & Sari, A. K. (2024). Pengaruh jenis emulsifier terhadap stabilitas fisik emulgel ekstrak daun binahong. *Jurnal Farmasi Indonesia*, 21(1), 45-52.
- Li, Y., Wang, X., & Zhang, H. (2024). Interaction of saponins with lipid membranes: Mechanisms and biological implications. *Biochimica et Biophysica Acta (BBA) - Biomembranes*, 1866(3), 184-195.
- Lusiana, E., Zulisetiana, E. F., & Hasan, R. (2023). *Phytochemical Test And Effectiveness Of Binahong Extract As Antibacterial And Its Potential On Full Thickness Wound Diameter In Rattus Norvegicus*. *Icomesh*, 41–47.

- Maghfirah Rakmadhani, Dwi Rachmawaty, Sesilia Rante Pakadang, & Ratnasari Dewi. (2023). Formulasi Dan Uji Mutu Fisik Sediaan Masker Gel Peel Off Ekstrak Kulit Buah Pepaya (*Carica papaya* L.) Dengan Variasi Konsentrasi HPMC. *Jurnal Kefarmasian Akfarindo*, 8(1), 24–31. <https://doi.org/10.37089/Jofar.V8i1.196>
- Mamgain, S., Rawat, M., Singh, V., & Singh, A. (2025). *Formulation Strategies : A Comparative Analysis Of Emulsion , Gel & Emulgel*. 24(05), 608–625.
- Margono, Putri, E. N., & Gumilar, E. (2022). *Pengaruh Fraksi Minyak Dan Emulsifier Serta Kecepatan Pengadukan Terhadap Karakteristik Emulsi Minyak Biji Bunga Matahari (Helianthus Annuus L .) Dalam Air (M / A)*. 6(2), 117–126.
- Milutinov, J., & Cirin, D. (2023). *Emulgels : Promising Carrier Systems For Food Ingredients And Drugs*.
- Mohaghegh, S., Sabokbar, A., Ahangar-Sharbaf, H., & Others. (2019). Virulence Factors And Antibiotic Resistance Properties Of The Staphylococcus Epidermidis Strains Isolated From Hospital Infections In Ahvaz, Iran. *Tropical Medicine And Health*, 47(1), 37. <https://doi.org/10.1186/S41182-019-0180-7>
- Nafiisah, A., Purnamasari, R., & Mudalianah, S. (2024). Identifikasi Senyawa Metabolit Sekunder Pada Ekstrak Etanol Daun Binahong. *Jurnal Sosial Dan Sains (SOSAINS)*, 4(November), 1093–1106.
- Nawrot-Hadzik, I., Granica, S., & Matkowski, A. (2021). Antibacterial activity of proanthocyanidins and their mechanisms of action. *Molecules*, 26(10), 2953. <https://doi.org/10.3390/molecules26102953>
- Ng, K. W., & Lau, W. M. (2015). Skin Deep: The Basics Of Human Skin Structure And Drug Penetration. *Percutaneous Penetration Enhancers Chemical Methods In Penetration Enhancement: Drug Manipulation Strategies And Vehicle Effects*, 3–11. https://doi.org/10.1007/978-3-662-45013-0_1
- Nofriyanti, Rianti, R., Suhery, W. N., Agistia, N., & Muhtadi, W. K. (2022). Formulasi Dan Evaluasi Masker Gel Peel Off Ekstrak Kulit Buah Naga Merah (*Hylocereus polyrhizus*). *Jurnal Penelitian Farmasi Indonesia*, 11(2).
- Nuratika. (2024). Uji aktivitas antibakteri ekstrak etanol daun binahong (Anredera

- cordifolia) terhadap *Staphylococcus aureus*. *Jurnal Farmasi Indonesia*, 21(2), 89-96.
- Nurulin, L., Islamiyati, R., & Lestari, N. S. (2024). *Determination Of Flavonoid Levels Of Ethanol Extract 70 % Green Binahong Leaf (Anredera Cardifolia (Ten .) Stennis) With Uv-Vis Spectrophotometer Method*. 77–81.
- Olayemi, O. J., & David, C. (2023). Emulgel: A Promising Technology For Topical Delivery Of Herbal Extracts. *British Journal Of Pharmacy*, 8(1), 1–13. <https://doi.org/10.5920/Bjpharm.1046>
- Otto, M. (2009). *Staphylococcus Epidermidis—The “Accidental” Pathogen*. *Nature Reviews Microbiology*, 7(8), 555–567. <https://doi.org/10.1038/Nrmicro2182>
- Panwar, A. S., Gandhi, S., & Sharma, A. (2011). *Emulgel : A Review*. September.
- Papan, C., Schröder, M., Hoffmann, M., & Others. (2021). Combined Antibiotic Stewardship And Infection Control Measures To Contain The Spread Of Linezolid-Resistant *Staphylococcus Epidermidis* In An Intensive Care Unit. *Antimicrobial Resistance And Infection Control*, 10, 99. <https://doi.org/10.1186/S13756-021-00970-3>
- Patel, J., Patel, R., & Patel, M. (2020). Development and evaluation of emulgel based formulation of herbal extract. *Asian Journal of Pharmaceutical Sciences*, 15(3), 312-320.
- Pinartin, S., Suryani, L., & Ekawati, D. (2023). *Analisis Faktor-Faktor Yang Berhubungan Dengan Kecantikan Kasih Beauty Clinic Musi Banyuasin Tahun. 4(September)*, 2654–2670.
- Pooja, J., Amir, D. S., & Rahul, D. B. (2024). Emulgel Review – A Novel Topical Drug Delivery System. *International Journal Of Pharmaceutical Sciences Review And Research*, 84(5), 82–91. <https://doi.org/10.47583/Ijpsrr.2024.V84i05.020>
- Pramiastuti, O., Zen, D. A., & Prastiyo, B. A. (2018). Penetapan Kadar Total Fenolik Dan Uji Aktivitas antioksidan Ekstrak Etanol 96% Daun Kecombrang (*Etlintera Elatior*) Dengan Metode 2,2-Difenil-1- Pikrilhidazil (DPPH). *Jurnal Farmasi & Sains Indonesia*, 1(2), 42–55.
- Pramita Yuli Pratiwi, Ana Mardiyarningsih, Nur Ismiyati, & Hery Setiyawan.

- (2021). Antibacterial Activity Of Ethanolic Extract, N-Hexane Fraction, And Chloroform Fraction Of Binahong Leaves (*Anredera Cordifolia*) On *Escherichia Coli* And Its Phytochemical Screening. *Jurnal Jamu Indonesia*, 6(2), 84–91. <https://doi.org/10.29244/Jji.V6i2.207>
- Proksch, E., Brandner, J. M., & Jensen, J. M. (2008). The skin: An indispensable barrier. *Experimental Dermatology*, 17(12), 1063–1072. <https://doi.org/10.1111/j.1600-0625.2008.00786>.
- Puglia, C., Bonina, F., & Trombetta, D. (2017). Formulation and evaluation of emulgel containing natural antimicrobial agents. *International Journal of Cosmetic Science*, 39(2), 175–182.
- Purwa Hita, I. P. G. A., Ardinata, I. P. R., & Wardhana, Z. F. (2023). Optimalisasi Aktivitas Antibakteri Ekstrak Etanol 70 % Daun Binahong Terhadap Bakteri *Staphylococcus Aureus*. *Jurnal Farmasi Dan Kesehatan*, 12(1), 58–66.
- 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.
- Putri, R. N., Wahidah, S. N., Hosiyah, Hafidz, I. T. Al, & Faisal. (2023). Uji Daya Hambat Antimikroba Secara Difusi Sumuran Dan Difusi Paper Disk Potential Test Of Inhibition Antimicrobial Compounds By Well Diffusion And Paper Disk Difusion. *Era Sains : Journal Of Science, Engineering And Information Systems Research*, 1(4), 28–33.
- Rahmawati, F., & Bintari, S. H. (2014). Studi Aktivitas Antibakteri Sari Daun Binahong (*Anredera Cordifolia*) Terhadap Pertumbuhan *Bacillus Cereus* Dan *Salmonella Enteritidis*. *Life Science*, 3(2), 103–111.
- Ramadhani, M. A., Nadifah, S. D., Putri, N. A., & Sulastri, S. (2024). Uji Aktivitas Antibakteri Berbagai Ekstrak Tanaman Herbal Terhadap *Staphylococcus Epidermidis*. *Generics: Journal Of Research In Pharmacy*, 4(1), 65–76. <https://doi.org/10.14710/Genres.V4i1.22681>
- Ramadhani S.N, Aktsar R. A., & Syarif Rezki A.S. (2023). Penetapan Kadar Fenolik Ekstrak Etanol Biji Kakao (*Theobroma cacao* L.) Menggunakan Metode Spektrofotometri UV-VIS. *Makassar Natural Product Journal*, 1(4),

- 2023–2212. <https://Journal.Farmasi.Umi.Ac.Id/Index.Php/Mnpj>
- Rofidah, A., Maulida, H. J., Shofura, N. R. Al, Rolita, N. N., Hidayah, U., & Faisal. (2024). Uji Potensi Senyawa Antimikroba Pada Daun Sirih Hijau (*Piper Batle*) Secara Difusi Sumuran Dan Difusi Paper Disk. *Era Sains: Journal Of Science, Engineering And Information Systems Research*, 2(1), 8–14. <https://Jurnal.Eraliterasi.Com/Index.Php/Erasains>
- Rowe, R., Sheskey, P., & Marian, Q. (2009). *Handbook Of Pharmaceutical Exipients 6th Edition.Pdf*.
- Sanjaya, G., Linawati, N. M., Arijana, I. G., Wahyuniari, I., & Wiryawan, S. (2023). Flavonoid Dalam Penyembuhan Luka Bakar Pada Kulit. *Jurnal Sains Dan Kesehatan (J. Sains Kes.)*, 5(2), 243–249.
- Sanjaya, I. G. M., Ismono, Samik, Ishma, E. F., & Mufid, M. F. (2021). Perbedaan Karakter Fisiko-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>
- Sansawat, A., Ratanacoon, M., & Nitteranon, V. (2023). Antioxidative, anti inflammatory, antibacterial, and anti-adhesive activities of different solvent extracts from various parts of *Basella rubra* L. *International Journal of Agricultural Technology*, 19(2), 655-668.
- Santoso, E., Lestari, A., & Wibowo, A. (2021). Antibacterial Activity Of Flavonoid And Saponin In Binahong (*Anredera Cordifolia*). *Journal Of Natural Remedies*, 21(4), 243–250. <https://doi.org/10.18311/Jnr/2021/27311>
- Sari, N. A., Santoso, R., & Mardhiani, Y. D. (2020). Formulasi Masker Emulgel Peel-Off Ekstrak Rimpang Jahe Merah (*Zingiber Officinale* Var. *Rubrum*) Sebagai Anti Jerawat. *Jurnal Farmasi Galenika*, 4.
- Scalbert, A. (1991). Antimicrobial properties of tannins. *Phytochemistry*, 30(12), 3875-3883. [https://doi.org/10.1016/0031-9422\(91\)83426-L](https://doi.org/10.1016/0031-9422(91)83426-L)
- Sengupta, R., Barman, S., & Roy, S. (2023). Staphylococcus Epidermidis And Its Dual Lifestyle In Skin Health And Infection. *Frontiers In Cellular And Infection Microbiology*, 13, 1189472. <https://doi.org/10.3389/Fcimb.2023.1189472>
- Setiani, I., & Endriyatno, N. C. (2023). *Formulasi Gel Ekstrak Buah Tomat (*

- Solanum Lycopersicum L .)* Dengan Variasi Konsentrasi HPMC Serta Uji Fisiknya. 3(3), 378–390. <https://doi.org/10.37311/Ijpe.V3i3.21186>
- Sibero, H. T., Sirajudin, A., Anggraini, D. I., Dokter, P., Kedokteran, F., Lampung, U., Ilmu, B., Sakit, R., Moeloek, A., & Lampung, B. (2019). *Prevalensi Dan Gambaran Epidemiologi Akne Vulgaris Di Provinsi Lampung The Prevalence And Epidemiology Of Acne Vulgaris In Lampung*. 3.
- Sinko, P. J. (2011). *Martins Physical Pharmacy And Pharmaceutical Sciences , 6th Edition By PATRICK J. SINKO*.
<https://innocentbalti.files.wordpress.com/2015/01/Martins-Physical-Pharmacy-6th-ed-2011-dr-murtadha-alshareifi.pdf>
- Souhoka, F. A., Kapelle, I. B. D., & Sihasale, E. (2021). Phytochemical And Antioxidant Test Of Binahong (*Anredera Cordifolia* (Tenore) Steenis) Leaves Ethanol Extract. *Fullerene Journal Of Chemistry*, 6(1), 28.
<https://doi.org/10.37033/Fjc.V6i1.248>
- Suharti, N. (2022). Uji efektivitas ekstrak daun binahong (*Anredera cordifolia*) terhadap pertumbuhan bakteri *Staphylococcus aureus*. *Poltekkes Kemenkes Medan*, 17(3), 123-130.
- Sulastri, A., & Chaerunisaa, A. Y. (2020). *Formulasi Masker Gel Peel Off Untuk Perawatan Kulit Wajah*. 14, 17–26.
- Sundari, P., Puspitasari, D., & Rahmawati, A. N. (2024). Formulasi nanoemulgel peel off ekstrak buah stroberi (*Fragaria x ananassa*) dan minyak palmarosa (*Cymbopogon martinii*) sebagai antibakteri *Propionibacterium acnes*. *Jurnal Farmasi STIKES Nasional*. <https://doi.org/10.373013/c2q54s10>
- Surbakti, P. A. A., Edwin, D. Q., & Boddhi, W. (2018). Skrining Fitokimia Dan Uji Toksisitas Ekstrak Etanol Daun Binahong (*Andredera cordifolia* (Ten.) Steenis) Dengan Metode *Brine Shrimp Lethality Test* (BSLT). *Pharmacon Jurnal Ilmiah Farmasi*, 7(3), 22–31.
- Suzihaque, M. U., & Mohammad, N. (2021). Anthocyanin extraction and its antioxidant and antibacterial properties: A review. *Food Research*, 5(2), 1-12.
- Tadic, V. M., Žugic, A., Martinovic, M., Stankovic, M., Maksimovic, S., Frank, A., & Nesic, I. (2021). *Enhanced Skin Performance Of Emulgel Vs . Cream As Systems For Topical Delivery Of Herbal Actives (Immortelle Extract And*

Hemp Oil).

- Tahir, M., Muflihunna, A., & Syafrianti. (2020). Penentuan Kadar Fenolik Total Ekstrak Etanol Daun Nilam Dengan Metode Spektrofotometri UV-VIS. *Jurnal Fitofarmaka Indonesia*, 4(1), 215–218.
- Tasoula, E., Gregoriou, S., Chalikias, J., Lazarou, D., Larios, G., & Rigopoulos, D. (2021). The Impact Of Acne Vulgaris On Quality Of Life And Psychosocial Well-Being. *Dermatology Reports*, 13(1), 15–21. <https://doi.org/10.4081/Dr.2021.8946>
- Teeranachaideekul, V., Soontaranon, S., Sukhasem, S., Chantasart, D., & Wongrakpanich, A. (2023). Influence Of The Emulsifier On Nanostructure And Clinical Application Of Liquid Crystalline Emulsions. *Scientific Reports*, 1–14. <https://doi.org/10.1038/S41598-023-31329-W>
- Tiwari, C., Choudhary, M., Malik, P., Jaiswal, P. K., & Chauhan, R. (2022). *Journal Of Drug Delivery And Therapeutics Transdermal Patch : A Novel Approach For Transdermal Drug Delivery*. 12(6), 179–188.
- Vasam, M., Korutla, S., & Ashok, R. (2023). *Acne Vulgaris : A Review Of The Pathophysiology , Treatment , And Recent Nanotechnology Based Advances*. 36(September), 1–8.
- Verywell Health. (2022). *Topical Antibiotics For Acne Treatment*.
- Waghmare, A., Patel, K., & Shah, D. (2025). Advances In Emulgel Formulations: A Review. *International Journal Of Pharmaceutics*, 634, 122–135. <https://doi.org/10.1016/J.Ijpharm.2025.122135>
- Wardani, H. N. (2020). Potensi Ekstrak Daun Sirsak Dalam Mengatasi Kulit Wajah Berjerawat. *Jurnal Penelitian Perawat Profesional*, 2(November), 563–570.
- Wardiyah, S. (2015). *Perbandingan Sifat Fisik Sediaan Krim, Gel, Dan Salep Yang Mengandung Etil P-Metoksisinamat Dari Ekstrak Rimpang Kencur (Kaempferia Galanga Linn.)*.
- Waterman, K. C., & Adami, R. C. (2005). Accelerated aging: Prediction of chemical stability of pharmaceuticals. *International Journal of Pharmaceutics*, 293(1-2), 101-125. <https://doi.org/10.1016/j.ijpharm.2004.12.013>
- Wei, X., Zhou, Y., & others. (2021). Antibacterial activity of Sapindus saponins

- against microorganisms related to food hygiene and the synergistic action mode of Sapindoside A and B against *Micrococcus luteus* in vitro. *Food Control*, 130, 108337. <https://doi.org/10.1016/j.foodcont.2021.108337>
- World Health Organization. (2020). *Quality control methods for herbal materials* (Updated ed.). WHO Press.
- Wibawa, I. G. A. E., & Winaya, K. K. (2019). Karakteristik Penderita Acne Vulgaris Di Rumah Sakit Umum (RSU) Indera Denpasar Periode 2014-2015 Program Studi Pendidikan Dokter Fakultas Kedokteran Universitas Udayana Bagian Ilmu Penyakit Kulit Dan Kelamin Rumah Sakit Umum Pendidikan Sanglah Lebih La. *Jurnal Medika Udayana*, 8(11), 1–4.
- Widasari, N. P. A., Aryastuti, A. A. S. A., & Sunyamurthi, I. G. N. A. (2024). *Hubungan Derajat Acne Vulgaris Dengan Tingkat Ansietas Pada Mahasiswa Fakultas Kedokteran Dan Ilmu Kesehatan Universitas Warmadewa Kedokteran Di Universitas Udayana Bali Vulgaris Dengan Tingkat Ansietas Pada*. 4(2), 252–260.
- Wulansari, S. A., Umarudin, & Sa'diyah, L. (2022). *Pengaruh Variasi Jenis Dan Konsentrasi Gelling Agent Terhadap Karakteristik Fisik Emulgel Koenzim Q10*. 2(2), 161–171. <https://doi.org/10.52365/Jecp.V2i2.464>
- Yan, J., Wang, Q., & Liu, Y. (2024). Dual antibacterial mechanisms of flavonoids against Gram-positive bacteria. *Frontiers in Microbiology*, 15, 1356789. <https://doi.org/10.3389/fmicb.2024.1356789>
- Yolanda, S., Pratiwi, A. R., & Hidayat, R. (2024). Kandungan senyawa bioaktif dan aktivitas antibakteri ekstrak daun binahong (*Anredera cordifolia*). *Jurnal Kimia dan Kemasan*, 46(1), 45-52.
- Yuan, G., Guan, Y., Yi, H., Lai, S., Sun, Y., & Cao, S. (2021). Antibacterial activity and mechanism of plant flavonoids to gram-positive bacteria predicted from their lipophilicities. *Scientific Reports*, 11, 10471. <https://doi.org/10.1038/s41598-021-90035-7>.
- Yulia, M., & Sari, W. P. (2022). Formulasi Masker Gel Peel Off Dari Ekstrak Umbi Bawang Dayak (*Eleutherine Bulbosa* (Mill) Urb). *Jurnal Farmasi Sains Dan Obat Tradisional*, 1, 1–8.
- Zaenglein, A. L. (2020). Acne Vulgaris. *New England Journal Of Medicine*,

382(12), 1134–1142. <https://doi.org/10.1056/nejmra1902024>

Żmuda, Bartłomiej, Żuberek, Michał, Ślusarczyk, Daniel, Pisera, Piotr, Kielkiewicz, Aleksandra, P., & Zuzanna, Pactwa, F. And J. (2024). *Acne Vulgaris - Review On Pathogenesis And Treatment*. 50–63.

