

## DAFTAR PUSTAKA

- Al-Shobaili, H. A. (2014). Oxidants and Anti-Oxidants Status in Acne Vulgaris Patients with Varying Severity. *Annals of Clinical & Laboratory Science*, 44(2), 202–207. [www.annclinlabsci.org](http://www.annclinlabsci.org)
- Ambalina, M., Manalu, K., & Nasution, R. A. (2023). Aktivitas Antibakteri Ekstrak Daun Sambung Nyawa (*Gynura procumbens* L.) Terhadap Bakteri *Vibrio cholera* Dan *Klebsiella pneumonia*. *Best Journal*, 6(1), 620–626. <https://doi.org/10.30743/best.v6i1>
- Amin, M. Z., Afrin, M., Meghla, N. S., Nur, M. A., Rahman, M. M., & Uddin, M. J. (2021). Assessment of antibacterial, anti-inflammatory, and cytotoxic effects of different extracts of *Gynura procumbens* leaf. *Current Therapeutic Research*, 95. <https://doi.org/10.1016/j.curtheres.2021.100636>
- Andalia, R., Adriani, A., & Alawiyah, S. (2024). Formulasi dan Evaluasi Mutu Fisik Sediaan Hand Cream dari Ekstrak Kulit Pepaya (*Carica papaya* L.). *Jurnal Ilmiah Farmasi Simplicia*, 4(2), 105–114. <https://doi.org/10.30867/jifs.v4i2.751>
- Angela, K., Duma Kencana Irianto, I., & Ismiyati. (2021). Formulasi Dan Uji Stabilitas Fisik Sediaan Gel Sampo Minyak Atsiri Biji Pala (*Myristica Fragrans*). *Jurnal Jamu Kusuma*, 1(1), 27–35. <https://doi.org/10.37341/jurnaljamukusuma.v1i1.4>
- Anggraeni, R. (2019). Uji Karakteristik Simplicia Buah Andaliman (*Zanthoxylum Acanthopodium* DC.). *Jurnal Ilmiah Farmasi Imelda*, 3(2). <https://doi.org/10.52943/jifarmasi.v3i2.210>
- Anonim. (2017). *Farmakope Herbal Indonesia Edisi II*. Jakarta: Kementerian kesehatan RI.
- Anonim. (2020). *Farmakope Indonesia Edisi VI*. Jakarta: Departemen Kesehatan Republik Indonesia.
- Apriliantisyah, W., Haidir, I., Sodiqah, Y., & Fujiko Said, M. M. (2022). Daya Hambat Ekstrak Kunyit (*Curcuma domestica* Val) terhadap bakteri *Staphylococcus aureus* dan *Escherichia coli*. *Fakumi Medical Journal*, 2(10), 2022. <https://doi.org/10.33096/fmj.v2i10.127>
- Azizah, M., Septy Lingga, L., & Rikmasiri, Y. (2020). Uji aktivitas antibakteri kombinasi ekstrak etanol daun seledri (*Apium graveolens* L.) dan madu hutan terhadap beberapa bakteri penyebab penyakit kulit. *Jurnal Penelitian Sains*, 22(1), 37–44. <https://doi.org/10.26554/jps.v22i1.547>

- Badan Standarisasi Nasional. (1996a). *Standar Pembersih kulit muka SNI 16-4380-1996*. Jakarta: Dewan Standarisasi Nasional.
- Badan Standarisasi Nasional. (1996b). *Standar Sabun Mandi Cair SNI 06-4085-1996*. Jakarta: Dewan Standarisasi Nasional.
- Badaring, D. R., Puspitha, S., Sari, M., Nurhabiba, S., Wulan, W., & Anugrah, S. (2020). Uji Ekstrak Daun Maja (*Aegle marmelos* L.) terhadap Pertumbuhan Bakteri *Escherichia coli* dan *Staphylococcus aureus*. *Indonesian Journal of Fundamental Sciences*, 6(1). <https://doi.org/10.26858/ijfs.v6i1.13941>
- Becker, L. E., Bergstresser, P. R., Whiting, D. A., Clendenning, W. E., Dobson, R. L., Jordan, W. P., Abell, ; Edward, Lezotte, L. A., Pochi, P. E., Shupack, J. L., Sigafoes, R. B., Stoughton, R. B., & Voorhees, J. J. (1981). Topical Clindamycin Therapy for Acne Vulgaris A Cooperative Clinical Study. *Arch Dermatol*, 117(8), 482–485. <https://doi.org/10.1001/archderm.1981.01650080036024>
- Burnett, C. L., Heldreth, B., Bergfeld, W. F., Belsito, D. V., Hill, R. A., Klaassen, C. D., Liebler, D. C., Marks, J. G., Shank, R. C., Slaga, T. J., Snyder, P. W., & Andersen, F. A. (2014). Safety Assessment of PEGylated Oils as Used in Cosmetics. *International Journal of Toxicology*, 33(4), 13S-39S. <https://doi.org/10.1177/1091581814546337>
- Christiningtyas, M., Hidayah, A. N., Risqiani Wardana, N., & Falahi, A. (2024). Formulasi dan Evaluasi Gel Ekstrak Daun Nangka (*Artocarpus heterophyllus* Lam.) dengan Gelling Agent CMC Na. *Jurnal Ilmiah Farmasi Simplisia*, 4(1), 67–73. <https://doi.org/10.30867/jifs.v4i1.559>
- Davis, W. W., & Stout, T. R. (1971). Disc Plate Method of Microbiological Antibiotic Assay. I. Factors influencing variability and error. *Applied Microbiology*, 22(4), 659–665. <https://doi.org/10.1128/am.22.4.659-665.1971>
- Endah, S., Shintia, C., & Nofriyaldi, A. (2021). Stability Test of Gel Hand Sanitizer Ethanol Extract of Nutmeg (Pala) Leaves (*Myristica fragrans* Houtt.) with Variation of the Concentration of HPMC (Hydroxy Propyl Methyl Cellulose) and Glycerine. *J.Food Pharm.Sci*, 9(1), 395–402. <https://doi.org/10.22146/JFPS.1150>
- Fatimah, S., Prasetyaningsih, Y., & Astuti, R. W. (2022). Efektifitas Antibakteri Ekstrak Daun Pegagan (*Centella Asiatica*) Terhadap Pertumbuhan Bakteri *Staphylococcus aureus*. *Jurnal Ilmu Kefarmasian*, 3(1). <https://doi.org/10.31764/lf.v3i1.7233>
- Fattah, A., Qaraman, A., Qaramanand, A., & Zuhud, A. A. (2018). The Influence Of Using Cocamidopropyl Betaine As Chemical Additive On Thermal And Physical Properties Of Foam Mortar. *Asian Journal of Natural & Applied Sciences*, 7(3). <https://www.researchgate.net/publication/328118910>

- Fenny, S., Safitri, I., & Febriana, D. (2021). Overview: Application of Carbopol 940 in Gel. *Advances in Health Sciences Research*, 34. <https://doi.org/10.2991/ahsr.k.210127.018>
- Gilaberte, Y., Prieto-Torres, L., Pastushenko, I., & Juarranz, Á. (2016). Anatomy and Function of the Skin. In *Nanoscience in Dermatology* (pp. 1–14). Elsevier Inc. <https://doi.org/10.1016/B978-0-12-802926-8.00001-X>
- Gurning, D., Nathaniel, D., Meila, O., & Sagala, Z. (2018). Uji Aktivitas Antibakteri Sediaan Obat Kumur dari Ekstrak Etanol 70% Batang Sambung Nyawa (*Gynura procumbens* (Lour.) Merr.) terhadap Bakteri *Streptococcus mutans*. *Jurnal Farmasi Indonesia*, 15(2). <http://journals.ums.ac.id/index.php/pharmacon>
- Hamka, N., Hasrawati, A., Zulkarnain, I., & Mirawati. (2023). Formulasi Dan Evaluasi Sifat Fisik Dari Sediaan Face Wash Yang Mengandung Ekstrak Air Bunga Kesumba Turate (*Carthamus Tinctorius* L.). *As-Syifa Jurnal Farmasi*, 15(2), 2085–4714. <https://doi.org/10.56711/jifa.v15i2.1041>
- Hasna R, V., Andhara M, B., & Muhamin. (2023). Karakterisasi Simplisia dan Skrining Fitokimia Senyawa Metabolit Sekunder Daun Bebas (*Premna serratifolia* L.). *Indonesian Journal of Biological Pharmacy*, 3(2), 63–73. <https://doi.org/10.24198/ijbp.v3i2.43576>
- Helmy, S. A., El-Bedaiwy, H. M., & El-Masry, S. M. (2020). Applying Biopharmaceutical Classification System criteria to predict the potential effect of Cremophor®RH 40 on fexofenadine bioavailability at higher doses. *Therapeutic Delivery*, 11(7), 447–464. <https://doi.org/10.4155/tde-2020-0042>
- Irianto, I. D. K., Purwanto, P., & Mardan, M. T. (2020). Aktivitas Antibakteri dan Uji Sifat Fisik Sediaan Gel Dekokta Sirih Hijau (*Piper betle* L.) Sebagai Alternatif Pengobatan Mastitis Sapi. *Majalah Farmaseutik*, 16(2), 202–210. <https://doi.org/10.22146/farmaseutik.v16i2.53793>
- Jacob, S. E., & Atnini, S. (2008). Cocamidopropyl betaine. *Dermatitis*, 19(3), 157–160. <https://doi.org/10.2310/6620.2008.06043>
- Jannata, R. H., Gunadi, A., & Ermawati, T. (2014). Daya Antibakteri Ekstrak Kulit Apel Manalagi (*Malus sylvestris* Mill.) Terhadap Pertumbuhan *Streptococcus mutans* (Antibacterial. *Jurnal Pustaka Kesehatan*, 2(1), 23.
- Jumardin, W., Firdaus, S., & Utari, A. U. (2023). Formulasi dan Uji Aktivitas Antibakteri Sediaan Gel Facial Wash Ekstrak Etanol Daun Belimbing Wuluh (*Averrhoa Bilimbi* L.) Terhadap Pertumbuhan *Propionibacterium Acnes* Penyebab Jerawat. *Inhealth: Indonesian Health Journal*, 2(2), 153–169. <https://doi.org/10.56314/inhealth.v2i12>
- K. Oge, L., Broussard, A., & D. Marshall, M. (2019). Acne Vulgaris: Diagnosis and Treatment. *American Family Physician*, 100(8), 475–484.

- Kartiningsih, Damayanti, R., & Budiat, A. (2023). Formulasi Gel Ekstrak Daun Sosor Bebek (*Kalanchoe pinnata* (Lam.) Per.) dengan Kombinasi Carbophol 980 dan Cremophor RH 40. *Jurnal Pharmascience*, 10(1), 14–22. <https://doi.org/https://dx.doi.org/10.20527/jps.v10i1.13272>
- Katuuk, R. H. H., Wanget, S. A., & Tumewu, P. (2019). The Effect Of Differences In Site Height On The Content Of Secondary Metabolites Of Babadotan Weeds (*Ageratum Conyzoides* L.). *COCOS*, 10(6), 1–6. <https://doi.org/https://doi.org/10.35791/cocos.v1i4.24162>
- Khasanah, N. I., Fatwami, E. F., & Royani, S. (2023). Skrining Fitokimia Dan Evaluasi Fisik Sediaan Facial Wash Gel Ekstrak Daun Sirsak (*Annona muricata* L.). *Journal of Pharmacopolium*, 6(3), 76–83. <https://doi.org/10.36465/jop.v6i3.1200>
- Khotimah, H., Anggraeni, E. W., & Setianingsih, A. (2017). Characterization Of Water Processing Using Distilation Equipment. *Jurnal Chemurgy*, 1(2). <https://doi.org/10.30872/cmg.v1i2.1143>
- Kurniawati, T., Rahayu, T. P., & Kiromah, N. Z. W. (2022). Formulasi dan Uji Sifat Fisik Facial Wash Ekstrak Methanol Daun Salam (*Eugenia polyntha*) sebagai Antioksidan dengan Metode DPPH (1,1-difenil-2-pikrihidrazil). *Jurnal Sains Dan Kesehatan*, 4(3), 243–250. <https://doi.org/10.25026/jsk.v4i3.983>
- Lawton, S. (2019). Skin 1: the structure and functions of the skin. *Nursing Times*, 115(12).
- Lieber, M. A. (1988). Final Report on the Safety Assessment of DMDM Hydantoin. *Journal Of The American College Of Toxicology*, 7(3), 96.
- Mardikasari, S. A., Nafisah, A., Mallarangeng, T. A., Ode, W., Zubaydah, S., & Juswita, E. (2022). Formulasi dan Uji Stabilitas Lotion dari Ekstrak Etanol Daun Jambu Biji (*Psidium guajava* L.) Sebagai Antioksidan. *Jurnal Farmasi*, 3(2), 28–32. <https://doi.org/10.30605/biogenerasi.v7i1.1707>
- Mayba, J. N., & Gooderham, M. J. (2018). A guide to topical vehicle formulations. *Journal of Cutaneous Medicine and Surgery*, 22(2), 207–212. <https://doi.org/10.1177/1203475417743234>
- Mowla Mou, K., & Ranjan Dash, P. (2016). A Comprehensive Review On *Gynura Procumbens* Leaves. *International Journal of Pharmacognosy*, 3(4), 167–174. [https://doi.org/10.13040/IJPSR.0975-8232.IJP.3\(4\).167-74](https://doi.org/10.13040/IJPSR.0975-8232.IJP.3(4).167-74)
- Mulyani, Y., Lado, A. S., & Sulaeman, A. (2021). Review : Kajian Aktivitas Antibakteri, Antiinflamasi dan Antioksidan dari Tanaman Sambung Nyawa (*Gynura Procumbens*). *Jurnal Mandala Pharmacon Indonesia*, 7(2), 123–142. <https://doi.org/10.35311/jmp>

- Mustafizur, R., & Al Asad, S. (2013). Chemical and biological investigations of the leaves of *Gynura procumbens*. *International Journal of Biosciences (IJB)*, 36–43. <https://doi.org/10.12692/ijb/3.4.36-43>
- Musdalifah, Natsir Djide, M., & Ida, N. (2021). Pengaruh Konsentrasi Ekstrak Propolis Dalam Sediaan Salep Terhadap Penghambatan Pertumbuhan Bakteri *Staphylococcus Aureus*. *Majalah Farmasi Dan Farmakologi*, 25(2), 73–75. <https://doi.org/10.20956/mff.v25i2.10725>
- 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>
- Nurviana, V., Fadillah Suharta, L., Shiddiqah Nasir, A., Akhrija Jakriyana, H., & Marjani Djahroh, S. (2022). Efektivitas Antibakteri Dan Antioksidan Sabun Facial Wash Ekstrak Etanol Biji Limus (*Mangifera Foetida L.*). *Jurnal Katalisator*, 7(2), 178–191. <https://doi.org/10.22216/jk.v5i2.5717>
- Ode, W., Zubaydah, S., Novianti, R., & Indalifiany, A. (2022). Pengembangan Dan Pengujian Sifat Fisik Sediaan Spray Gel Dari Ekstrak Etanol Batang Etlingera Rubroloba Menggunakan Basis Gel Na-Cmc. *Journal Borneo*, 2(2), 38–49. <https://doi.org/10.57174/jborn.v2i2.27>
- Pissarenko, A., & Meyers, M. A. (2020). The materials science of skin: analysis, characterization, and modeling. *Progress in Materials Science*, 110. <https://doi.org/10.1016/j.pmatsci.2019.100634>
- Pratiwi, N., Dahlan, & Ode Mulyana, W. (2023). Analisis Senyawa Metabolit Sekunder dan Uji Toksisitas Fraksi N-Heksan dan Fraksi Etil Asetat Ekstrak Etanol Daun Ketepeng Cina (*Cassia alata L.*). *Jurnal Kimia Dan Pendidikan Kimia*, 12(2). <https://doi.org/10.36709/sains.v13i1.59>
- Purnavita, S., & Wulandari, P. (2020). Pengambilan Galaktomanan Dari Buah Nipah Dengan Metode Ekstraksi. *Journal of Chemical Engineering*, 1(2). <https://doi.org/10.56444/cjce.v1i2.1518>
- Rohmani, S., Ningrum, S. K., Dyah Wardhani, W., Ermawati, D. E., & Kundarto, W. (2022). Pengaruh Variasi Konsentrasi Surfaktan Iselux Ultra Mild pada Formulasi Hydrating Facial Wash Potassium Azeloyl Diglycinate. *Jurnal Kefarmasian Indonesia*, 1(12), 58–68. <https://doi.org/10.22435/jki.v12i1.4969>
- Rossalinda, R., Wijayanti, F., & Iskandar, D. (2021). Effectiveness of Matoa Leaf (*Pometia pinnata*) Extract as an Antibacterial *Staphylococcus epidermidis*. *Stannum : Jurnal Sains Dan Terapan Kimia*, 3(1), 1–8. <https://doi.org/10.33019/jstk.v3i1.2133>

- Rowe, R., Sheskey, P. J., & Quinn, M. E. (2009). *Handbook of Pharmaceutical Excipients* (6th ed.). pharmaceutical Press and American Pharmacists Association.
- Safitri, F. I., Nawangsari, D., & Febriana, D. (2021). Overview: Application of Carbopol 940 in Gel. *Advances in Health Sciences Research*, 34. <https://doi.org/https://doi.org/10.2991/ahsr.k.210127.018>
- Sarijowan, T. P. D., Bodhi, W., & Lebang, J. S. (2022). *Staphylococcus aureus Dan Pseudomonas aeruginosa*. *Pharmacon*, 11(4), 1678–1685. <https://doi.org/10.35799/pha.11.2022.42034>
- Savitri, G. R., Triatmoko, B., & Nugraha, A. S. (2020). Skrining Fitokimia dan Uji Aktivitas Antibakteri Ekstrak dan Fraksi Tumbuhan Anyang-Anyang (*Elaeocarpus grandiflorus* J. E. Smith.) terhadap *Escherichia coli*. *Journal of Pharmaceutical Science and Clinical Research*, 5(1), 22–32. <https://doi.org/10.20961/jpscr.v5i1.32206>
- Shannon, J. F. (2020). Why do humans get acne? A hypothesis. *Medical Hypotheses*, 134. <https://doi.org/10.1016/j.mehy.2019.109412>
- Shrestha, P., Zhang, Y., Chen, W. J., & Wong, T. Y. (2020). Triclosan: antimicrobial mechanisms, antibiotics interactions, clinical applications, and human health. *Journal of Environmental Science and Health, Part C*, 38(3), 245–268. <https://doi.org/10.1080/26896583.2020.1809286>
- Soe, S. C., Kalalo, J. G. K., & Melpin, R. (2024). Uji aktivitas antibakteri ekstrak etanol daun sambung nyawa *Gynura procumbens* (Lour) Merr terhadap bakteri *Propionibacterium acnes* penyebab jerawat. *Pharmacy Research Journal*, 01(01), 13–17.
- Solanki, D. S., Suraj, D., Sagrule, S., Subhash Unhale, Q. B., Ansar, M. G., Chitte, P., & Biyani, K. R. (2020). Formulation, Development And Evaluation Of Instant Whitening Face Wash. *World Journal of Pharmaceutical Research*, 9, 2541–2557. <https://doi.org/10.20959/wjpr20205-17516>
- Sri Wahyuni, Y., & Anggelina, S. (2021). Penetapan Kadar Senyawa Terlarut Dalam Pelarut Etanol Dan Kadar Air Ekstrak Daun Jambu Mete (*Anacardium Occidentale* L.) Sebagai Parameter Spesifik Dan Non Spesifik. *Jurnal Kesehatan Yamsasi Makassar*, 5(1), 105–111. <https://doi.org/10.59060/jurkes.v7i1.250>
- Suena, N., Kadek Putri Krismawati, N., & Gede Made Suradnyana, I. (2023). Cycling Test Body Butter Maserat Biji Coffea Canephora Dengan Variasi Asam Stearat. *Jurnal Ilmiah Farmasi*, 12(1), 1–9. <https://doi.org/10.30591/pjif.v12i1.2704>
- Tunku Mahmud, T. H., Abdul-Aziz, A., & Muda, R. (2015). A Review on the Potential Use of Chitosan-Based Delivery System in Mild Facial Cleansing

- Formulation. *International Journal of Polymeric Materials and Polymeric Biomaterials*, 64(8), 432–437. <https://doi.org/10.1080/00914037.2014.958832>
- Ulinnuha, A., Indah Kurniasih, K., Nawangsari, D., & Prabandari, R. (2024). Evaluasi Fisik Facial Wash Ekstrak Daun Sirsak (*Annona Muricata L.*) Berbasis Gelling Agent. *Pharmacy Genius*, 3(3), 136–148. <https://doi.org/10.56359/pharmgen.v3i03.396>
- Vasam, M., Korutla, S., & Bohara, R. A. (2023). Acne vulgaris: A review of the pathophysiology, treatment, and recent nanotechnology based advances. *Biochemistry and Biophysics Reports*, 36, 1–8. <https://doi.org/10.1016/j.bbrep.2023.101578>
- Wayan, N., Yuliantari, A., Rai, W., Dan I, W., Gede, D., & Permana, M. (2017). Pengaruh Suhu dan Waktu Ekstraksi Terhadap Kandungan Flavonoid dan Aktivitas Antioksidan Daun Sirsak (*Annona muricata L.*) Menggunakan Ultrasonik. *Media Ilmiah Teknologi Pangan*, 4(1), 35–42.
- Wendersteyt, N., Wewengkang, D. S., & Sumantri Abdullah, S. (2021). Uji Aktivitas Antimikroba Dari Ekstrak Dan Fraksi Ascidian Herdmania Momus Dari Perairan Pulau Bangka Likupang Terhadap Pertumbuhan Mikroba *Staphylococcus Aureus*, *Salmonella Typhimurium* Dan *Candida Albicans*. *Pharmacon*, 10(1), 706–712. <https://doi.org/10.35799/pha.10.2021.32758>
- Yani, T. N., Anwar, E., & Saputri, F. C. (2016). Formulasi Emulgel yang Mengandung Ekstrak Etanol Daun Binahong (*Anredera cordifolia* (Ten.) Steenis) dan Uji Aktivitasnya terhadap *Propionibacterium acnes* secara In Vitro. *Jurnal Kefarmasian Indonesia*, 6(2), 89–97. <https://doi.org/10.22435/jki.v6i2.6223.89-97>
- Yew Teoh, W., Abdul Wahab, N., Stella Moses Richardson, J., & Shin Sim, K. (2016). Evaluation of Antioxidant Properties, Cytotoxicity and Acute Oral Toxicity of *Gynura procumbens* (Compositae). *Sains Malaysiana*, 45(2), 229–235.
- Yuhara, N. A. (2024). Effectiveness Test Of Face Wash Gel Kersen Leaf (*Muntingia Calabura*) Thick Extract As Anti-Acne Agent. *Jurnal Eduhealth*, 15(04), 1–9. <https://doi.org/10.54209/eduhealth.v15i04>
- Yurisca, D., & Luthfika Dewi, M. (2023). Formulasi Sediaan Sabun Wajah Gel Mengandung Bahan Alam Sebagai Antijerawat. *Jurnal Riset Farmasi*, 121–128. <https://doi.org/10.29313/jrf.v3i2.3282>
- Zebua, D. P. L., Meldawati, Neswita, E., & Farsya, A. M. (2024). Uji Efektivitas Ekstrak Etanol Daun Sambung Nyawa (*Gynura Procumbens* (Lour) Merr.) Sebagai Antidiabetes Terhadap Tikus Putih Jantan (*Rattus Norvegicus*) Yang Diinduksi Aloksan. *Jurnal Mahasiswa Ilmu Farmasi Dan Kesehatan*, 2(3), 219–234. <https://doi.org/10.59841/jumkes.v2i3.1502>