DAFTAR PUSTAKA

Addisu, S., & Assefa, A. (2016). Role of plant containing saponin on livestock production ; a review. *Advances in Biological Research*, *10*(5), 309–314. https://api.semanticscholar.org/CorpusID:36910861

Aeni, L. N., Sulaiman, T. N. S., & Sri Mulyani. (2012). FORMULASI GEL MUKOADHESIF KOMBINASI MINYAK CENGKEH DAN GETAH JARAK PAGAR SERTA UJI AKTIVITAS ANTIBAKTERI TERHADAP STREPTOCOCCUS MUTANT. *Majalah Farmaseutik*, *8*(1), 108–112. https://doi.org/10.22146/farmaseutik.v8i1.24062

Ahmad, M. Z., Ahmad, J., Alasmary, M. Y., Akhter, S., Aslam, M., Pathak, K., Jamil, P., & Abdullah, M. M. (2022). Nanoemulgel as an approach to improve the biopharmaceutical performance of lipophilic drugs: Contemporary research and application. *Journal of Drug Delivery Science and Technology*, *72*, 103420. https://doi.org/10.1016/j.jddst.2022.103420

Aithal, G. C., Narayan, R., & Nayak, U. Y. (2019). Nanoemulgel: A Promising Phase in Drug Delivery. *Current Pharmaceutical Design*, *26*(2), 279–291. https://doi.org/10.2174/1381612826666191226100241

Alouw, G., Fatimawali, F., & Lebang, J. S. (2022). UJI AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL DAUN KERSEN (Muntingia calabura L.) TERHADAP BAKTERI Staphylococcus aureus DAN Pseudomonas aeruginosa DENGAN METODE DIFUSI SUMURAN.

Jurnal Farmasi Medica/Pharmacy Medical Journal (PMJ), *5*(1), 36. https://doi.org/10.35799/pmj.v5i1.41430

Amananti, W., & Dairoh, D. (2020). AKTIFITAS ANTIBAKTERI DARI SEDIAAN FOOTSANITIZER SPRAY KOMBINASI EKSTRAK BIJI KOPI (Coffea) DAN RIMPANG JAHE (Zingiber officinale). *Jurnal Ilmiah Manuntung*, *6*(2), 323. https://doi.org/10.51352/jim.v6i2.394

Andalia, R., Suzanni, M. A., Zakaria, N., & Yulia. (2024). Studi Formulasi dan Uji Mutu Fisik Sediaan Spray Gel Minyak Atsiri Kulit Buah Jeruk Purut (Citrus hystrix DC). *Jurnal Sains Dan Kesehatan Darussalam*, *4*(1), 13–21. https://doi.org/10.56690/jskd.v4i1.131

Andrews, J. M. (2001). Determination of minimum inhibitory concentrations. *The Journal of Antimicrobial Chemotherapy*, *48*(1), 5–16. https://doi.org/10.1093/jac/48.suppl_1.5

Angelia, Putri, G. R., Shabrina, A., & Ekawati, N. (2022). Formulasi Sediaan Spray Gel Ekstrak Kulit Jeruk Manis (Citrus Sinensis L.) sebagai Anti-Aging. *Generics Journal of Research in Pharmacy*, *2*(1), 44–53. https://doi.org/10.14710/genres.v2i1.13213

Anindhita, M. A., Khasanah, K., Sajuri, Priharwanti, A., & Sulistyanto, I. (2022). FORMULASI SEDIAAN TABLET HISAP EKSTRAK DAUN GLODOKAN TIANG DENGAN CMC Na SEBAGAI BAHAN PENGIKAT. *Cendekia Journal of Pharmacy*, *6*(2), 227–243. https://doi.org/10.31596/cjp.v6i2.198

Anindhita, M. A., & Oktaviani, N. (2020). Formulasi Spray Gel Ekstrak Daun Pandan Wangi Sebagai Antiseptik Tangan. *Parapemikir : Jurnal Ilmiah Farmasi*, *9*(1), 14–21. https://doi.org/10.30591/pjif.v9i1.1503

Astuti, S., & Reny. (2023). EKSTRAKSI DAN ANALISIS MINYAK ATSIRI PADA UMBI RUMPUT TEKI (Cyperus Rotundus Linn) SERTA UJI BIOAKTIFITAS TERHADAP BAKTERI Staphylococcus Aureus. *PRIMER: Jurnal Ilmiah Multidisiplin*, *1*(6), 592–602. https://doi.org/10.55681/primer.v1i1.xx

Asworo, R. Y., & Widwiastuti, H. (2023). Pengaruh Ukuran Serbuk Simplisia dan Waktu Maserasi terhadap Aktivitas Antioksidan Ekstrak Kulit Sirsak. *Indonesian Journal of Pharmaceutical Education*, *3*(2). https://doi.org/10.37311/ijpe.v3i2.19906

Ayudianti, P., Diah, M., & Indramaya. (2014). Studi Retrospektif: Faktor Pencetus Akne Vulgaris (Retrospective Study: Factors Aggravating Acne Vulgaris). *Berkala Ilmu Kesehatan Kulit & Kelamin*, *26*(1).

Azlin, S. Z., Sidoretno, W. M., & Dewi, A. P. (2023). Uji Aktivitas Antibakteri Fraksi Etil Asetat Daun Matoa (Pometia Pinnata J.R & G. Forst) terhadap Staphylococcus Aureus. *JFARM - Jurnal Farmasi*, *1*(1), 30–41. https://doi.org/10.58794/jfarm.v1i1.491

Bahadur, B., Bhattarai, N. K., Gurung, N. B., Lama, N. A., & Adhikari, N. A. (2022). Phytochemical analysis, antioxidant, and antibacterial activities of

Cyperus rotundus L. rhizomes. *Global Journal of Research in Life Sciences*, *1*(1), 001–009. https://doi.org/10.58175/gjrls.2022.1.1.0022

Bernardi, D. S., Pereira, T. A., Maciel, N. R., Josiane Bortoloto, Viera, G. S., Oliveira, G. C., & Rocha-Filho, P. A. (2011). Formation and stability of oil-in-water nanoemulsions containing rice bran oil: in vitro and in vivo assessments. *Journal of Nanobiotechnology*, *9*(1), 44–44. https://doi.org/10.1186/1477-3155-9-44

Bhat, Y., Latief, I., & Hassan, I. (2017). Update on etiopathogenesis and treatment of Acne. *Indian Journal of Dermatology, Venereology, and Leprology*, *83*(3), 298. https://doi.org/10.4103/0378-6323.199581

Bhattacharjee, S. (2016). DLS and zeta potential – What they are and what they are not? *Journal of Controlled Release*, *235*, 337–351. https://doi.org/10.1016/j.jconrel.2016.06.017

Bolzinger, M. A., Briançon, S., Pelletier, J., Fessi, H., & Chevalier, Y. (2007). Percutaneous release of caffeine from microemulsion, emulsion and gel dosage forms. *European Journal of Pharmaceutics and Biopharmaceutics*, *68*(2), 446–451. https://doi.org/10.1016/j.ejpb.2007.10.018

Bria, D. I., Missa, H., & Sombo, I. T. (2022). Isolasi Dan Karakterisasi Bakteri Escherichia coli Pada Bahan Pangan Berbasis Daging Di Kota Kupang. *JUSTER : Jurnal Sains Dan Terapan*, *1*(2), 82–89. https://doi.org/10.55784/juster.v1i2.179

Budiarto, W., Rochmah, N. N., & Setiyabudi, L. (2021). FORMULASI SEDIAAN NANOEMULSI EKSTRAK DAUN MANGROVE Avicennia Marina DENGAN VIRGIN COCONUT OIL SEBAGAI FASE MINYAK. *Jurnal Ilmiah JOPHUS : Journal of Pharmacy UMUS*, *2*(1), 36–43. https://doi.org/10.46772/jophus.v2i01.272

Chen, S.-C., Liu, J.-W., Wu, X.-Z., Cao, W.-L., Wang, F., Huang, J.-M., Han, Y., Zhu, X.-Y., Zhu, B.-Y., Gan, Q., Tang, X.-Z., Shen, X., Qin, X.-L., Yu, Y.-Q., Zheng, H.-P., & Yin, Y.-P. (2020). Comparison of Microdilution Method with Agar Dilution Method for Antibiotic Susceptibility Test of Neisseria gonorrhoeae. *Infection and Drug Resistance*, *13*, 1775–1780. https://doi.org/10.2147/idr.s253811

Clinical and Laboratory Standards Institute. (2020). *M100 Performance Standards for Antimicrobial Susceptibility Testing A CLSI supplement for global application. 30th Edition*. https://www.nih.org.pk/wp-content/uploads/2021/02/CLSI-2020.pdf

Daris, U. S., Syam, H., & Sukainah, A. (2023). Uji Daya Hambat serta Penentuan Minimum Inhibitor Concentration (MIC) Dan Minimum Bactericidal Concentration (MBC) Ekstrak Daun Bidara Terhadap Bakteri Patogen. *Jurnal Pendidikan Teknologi Pertanian*, *9*(2), 223–234. https://doi.org/10.26858/jptp.v9i2.682

Daskar, A., Utami, P. I., Astuti, I. Y., & Antoni, F. (2022). FORMULASI DAN KARAKTERISASI NANOPARTIKEL EKSTRAK DAUN SENGGANI

(Melastoma malabathricum L.) PADA BERBAGAI VARIASI KOMPOSISI KITOSAN DENGAN METODE GELASI IONIK. *Journal Pharmacy Aisyah*, *1*(2), 46–56. https://journal.aisyahuniversity.ac.id/index.php/JFA/article/view/najimis

Departemen Kesehatan Indonesia. (1979). *Farmakope Indonesia* (3rd ed.). Departemen Kesehatan Republik Indonesia.

Departemen Kesehatan Indonesia. (2000). *Parameter Standar Umum Ekstrak Tumbuhan Obat*. Departemen Kesehatan Republik Indonesia.

Desbrianto, D., Ulfa, A. M., & Lestari, Y. E. (2024). UJI STABILITAS FORMULASI SPRAY NANOEMULSI VARIASI POLIETILEN GLIKOL 400 EKSTRAK BUNGA TELANG (Clitoria ternatea L.) SEBAGAI TABIR SURYA. *JFM (Jurnal Farmasi Malahayati)*, *7*(1), 132–145. https://doi.org/10.33024/jfm.v7i1.11439

Devi, A. M., Hidayat, A. F., & Priani, S. E. (2020). Formulasi Sediaan Spray Gel Mengandung Nanoemulsi Minyak Cengkeh (Syzigium aromaticum L.) untuk Kandidiasis Oral. *Prosiding Farmasi*, *6*(2), 567–574. https://doi.org/10.29313/.v6i2.23332

Dewatisari, W. F. (2020). Perbandingan pelarut kloroform dan etanol terhadap rendemen ekstrak daun lidah mertua (Sansevieria trifasciata. Prain) menggunakan metode maserasi. *Prosiding Seminar Nasional Biologi*, *6*(1), 127–132. https://doi.org/10.24252/psb.v6i1.15638

Dewi, K. P., Gunam, I. B. W., & Wijaya, I. M. M. (2024). Antioxidant and antibacterial activity of nutgrass tuber (Cyperus rotundus L.) on extraction with different solvent polarity and particle sizes. *Food Research*, *8*(3), 513–519. https://doi.org/10.26656/fr.2017.8(3).261

Donthi, M. R., Munnangi, S. R., Krishna, K. V., Saha, R. N., Singhvi, G., & Dubey, S. K. (2023). Nanoemulgel: A Novel Nano Carrier as a Tool for Topical Drug Delivery. *Pharmaceutics*, *15*(1), 164–164. https://doi.org/10.3390/pharmaceutics15010164

dos Santos, R. D., Matos, B. N., Freire, D. O., da Silva, F. S., do Prado, B. A., Gomes, K. O., de Araújo, M. O., Bilac, C. A., Rodrigues, L. F. S., da Silva, I. C. R., de Sá Barreto, L. C. L., Gomes da Camara, C. A., de Moraes, M. M., Gelfuso, G. M., & Orsi, D. C. (2025). Chemical Characterization and Antimicrobial Activity of Essential Oils and Nanoemulsions of Eugenia uniflora and Psidium guajava. *Antibiotics*, *14*(1), 93. https://doi.org/10.3390/antibiotics14010093

Fadhila, Z. N., Andriani, D., & Wahyudi, D. (2024). FORMULASI NANOPARTIKEL FRAKSI ETIL ASETAT EKSTRAK ETANOL BUNGA TELANG (Clitoria ternatea L.) dan UJI ANTIBAKTERI Staphylococcus aureus YANG DIISOLASI DARI JERAWAT. *Cendekia Journal of Pharmacy*, *8*(2), 134–144. https://doi.org/10.31596/cjp.v8i2.295

Fadhli, H., Kusdiyantini, E., & Nurhayati. (2019). Karakterisasi morfologi, biokimia, dan uji enzimatis isolat khamir buah apel (Malus domestica

Borkh.) yang berpotensi menghasilkan bioetanol. *Jurnal Biologi Tropika*, *2*(2), 62–73. https://doi.org/10.14710/jbt.2.2.62-73

Fajrina, R. F. N., Rahayu, I. G., Wahyuni, Y., & Rahmat, M. (2019). AKTIVITAS ANTIBAKTERI EKSTRAK KULIT PISANG AMBON (MUSA ACUMINATA COLLA) TERHADAP STAPHYLOCOCCUS AUREUS SECARA IN-VITRO. *JURNAL RISET KESEHATAN POLTEKKES DEPKES BANDUNG*, *11*(1), 230–235. https://doi.org/10.34011/juriskesbdg.v11i1.744

Fini, A., Bergamante, V., Gian Carlo Ceschel, Ronchi, C., & Alberto, C. (2008). Control of Transdermal Permeation of Hydrocortisone Acetate from Hydrophilic and Lipophilic Formulations. *AAPS PharmSciTech*, *9*(3), 762–768. https://doi.org/10.1208/s12249-008-9107-z

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), 1752. https://doi.org/10.3390/microorganisms8111752

Gerung, W. H. P., Fatimawali, & Antasionasti, I. (2021). ANTIBACTERIAL ACTIVITY TEST OF BELIMBING BOTOL LEAF EXTRACT (Averrhoa bilimbi L.) AGAINST THE GROWTH OF Propionibacterium acne, AN ACNE-CAUSING BACTERIA UJI AKTIVITAS ANTIBAKTERI EKSTRAK DAUN BELIMBING BOTOL (Averrhoa bilimbi L.)

TERHADAP PERTUMBUHAN BAKTERI Propionibacterium acne PENYEBAB JERAWAT. *PHARMACON*, *10*(4).

Gilaberte, Y., Prieto-Torres, L., Pastushenko, I., & Juarranz, Á. (2016). Anatomy and Function of the Skin. *Nanoscience in Dermatology*, 1–14. https://doi.org/10.1016/b978-0-12-802926-8.00001-x

Gupta, R., Dwadasi, B. S., Rai, B., & Mitragotri, S. (2019). Effect of Chemical Permeation Enhancers on Skin Permeability: In silico screening using Molecular Dynamics simulations. *Scientific Reports*, *9*(1). https://doi.org/10.1038/s41598-018-37900-0

Hajrin, W., Subaidah, W., & Juliantoni, Y. (2024). Formulation And Characterization of Nanoemulsion from Brucea javanica Seed Extract. *Journal of Pharmaceutical Science and Technology Journal*, *11*(1), 117–125.

Hanifa, N. I., Wirasisya, D. G., Muliani, A. E., Utami, S. B., & Sunarwidhi, A. L. (2021). Phytochemical Screening of Decoction and Ethanolic Extract of Amomum dealbatum Roxb. Leaves. *Jurnal Biologi Tropis*, *21*(2), 510–518. https://doi.org/10.29303/jbt.v21i2.2758

Hasanah, N., & Gultom, E. S. (2020). UJI AKTIVITAS ANTIBAKTERI EKSTRAK METANOL DAUN KIRINYUH (Chromolaena odorata) TERHADAP BAKTERI MDR (Multi Drug Resistant) DENGAN METODE KLT BIOAUTOGRAFI. *JURNAL BIOSAINS*, *6*(2), 45. https://doi.org/10.24114/jbio.v6i2.16600

Hayati, R., Sari, A., & Chairunnisa, C. (2019). Formulasi Spray Gel Ekstrak Etil Asetat Bunga Melati (Jasminum sambac (L.) Ait.) Sebagai Antijerawat. *Indonesian Journal of Pharmacy and Natural Product*, *2*(2). https://doi.org/10.35473/ijpnp.v2i2.256

Indalifiany, A., Zubaydah, W. S., & Kasim, E. R. (2023). Formulasi Spray Gel Ekstrak Etanol Batang Etlingera rubroloba Menggunakan HPMC sebagai Gelling Agent. *Jurnal Sains Dan Kesehatan*, *5*(2), 140–148. https://doi.org/10.25026/jsk.v5i2.1729

Indrawati, T., Bahri, S., Pradita, M., Nur Fadia, A., & Azmi Muhammad, A. (2022). Formulasi Sabun Cair Antibakteri Dari Kombinasi Ekstrak Daun Sirih Merah Dan Ekstrak Kulit Lidah Buaya. *Pharmaceutical Journal of Indonesia*, *7*(2), 97–104. https://doi.org/10.21776/ub.pji.2022.007.02.4

Ismail, I., Radhia Riski, & Nabila Salsabila. (2023). Isolasi, Formulasi, dan Uji Efektivitas Antibakteri Granul Liofilisat Bakteri Asam Laktat Asal Kimchi terhadap Bakteri Penyebab Diare. *PHARMACY Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, *19*(1), 171–171. https://doi.org/10.30595/pharmacy.v19i1.12842

Ismanto, H. (2023). Uji Organoleptik Keripik Udang (L. vannamei) Hasil Penggorengan Vakum. *Jurnal AgroSainTa*, *6*(2), 53–58. https://doi.org/10.51589/ags.v6i2.116

Kaban, V. E., Nasri, N., Syahputra, H. D., Lubis, M. F., & Satria, D. (2023). Uji Aktivitas Antibakteri Ekstrak Daun Karenda (Carissa carandas Linn.)

Terhadap Bakteri Propionibacterium acne dan Staphylococcus epidermidis. *Journal of Pharmaceutical and Health Research*, *4*(1), 91–96. https://doi.org/10.47065/jharma.v4i1.3181

Kaczmarek, B. (2020). Tannic Acid with Antiviral and Antibacterial Activity as A Promising Component of Biomaterials—A Minireview. *Materials*, *13*(14), 3224. https://doi.org/10.3390/ma13143224

Kaempe, H. S., KOMANSILAN, S., ROLEF , M., & RUMONDOR, R. (2023). SKRINING FITOKIMIA EKSTRAK KULIT BUAH ALPUKAT (Persea americana MILL) SEBAGAI OBAT TRADISIONAL. *PHARMACON*, *12*(2), 223–228. https://doi.org/10.35799/pha.12.2023.47593

Karlina, D. W., Noval, N., & Yuwindry, I. (2024). Formulasi dan Evaluasi Nano Spray Gel dengan Ekstrak Daun Sirih Merah (piper crocatum Ruiz & Pav) Sebagai Antioksidan dengan Variasi Konsentrasi Carbopol 940. *Jurnal Surya Medika*, *10*(2), 288–301. https://doi.org/10.33084/jsm.v10i2.7754

Kementerian Kesehatan Republik Indonesia. (2020). *Farmakope Indonesia* (Edisi VI). Jakarta: Departemen Kesehatan Republik Indonesia.

Khairi, N., Sapra, A., Tawali, S., & Indrisari, M. (2024). FORMULASI GRANUL INSTAN EKSTRAK BUAH BUNI (Antidesma bunius L.) SEBAGAI MINUMAN ANTIOKSIDAN. *Jurnal Agroindustri*, *14*(1), 1–10. https://doi.org/10.31186/jagroindustri.14.1.1-10

Khoiriyah, H., Firdaus, R. A., Handayani, Y., & Hapsari, W. S. (2018). Formulation of Nano Spray Gel Bonggol Pisang Kepok (Musa balbisiana colla)

Formulasi Nano Spray Gel Bonggol Pisang Kepok (Musa balbisiana colla). *Prosiding APC (Annual Pharmacy Conference)*, *3*(1). https://jurnal.uns.ac.id/apc/article/view/25018

Khurana, S., Jain, N. K., & Bedi, P. M. S. (2013). Nanoemulsion based gel for transdermal delivery of meloxicam: Physico-chemical, mechanistic investigation. *Life Sciences*, *92*(6-7), 383–392. https://doi.org/10.1016/j.lfs.2013.01.005

Kopon, A. M., Baunsele, A. B., & Boelan, E. G. (2020). Skrining Senyawa Metabolit Sekunder Ekstrak Metanol Biji Alpukat (Persea Americana Mill.) Asal Pulau Timor. *Akta Kimia Indonesia*, *5*(1), 43–52. https://iptek.its.ac.id/index.php/kimia/article/view/6709/4454

Kosasi, C., Lolo, W. A., & Sudewi, S. (2019). ISOLASI DAN UJI AKTIVITAS ANTIBAKTERI DARI BAKTERI YANG BERASOSIASI DENGAN ALGA Turbinaria ornata (Turner) J. Agardh SERTA IDENTIFIKASI SECARA BIOKIMIA. *PHARMACON*, *8*(2), 351. https://doi.org/10.35799/pha.8.2019.29301

Kowalska-Krochmal, B., & Dudek-Wicher, R. (2021). The Minimum Inhibitory Concentration of Antibiotics: Methods, Interpretation, Clinical Relevance. *Pathogens*, *10*(2), 165. https://doi.org/10.3390/pathogens10020165

Kresnawati, Y., Fitrianingsih, S., & Purwaningsih, C. P. (2022). FORMULASI DAN UJI POTENSI SEDIAAN SPRAY GEL NIASIAMIDA DENGAN

PROPILENGLIKOL SEBAGAI HUMEKTAN. *Cendekia Journal of Pharmacy*, *6*(2), 281–290. https://doi.org/10.31596/cjp.v6i2.214

Kuntari, L. M., Wignyo , H., & Mulyawati, E. (2014). Perbedaan Daya Antibakteri Klorheksidin 2% dan Berbagai Konsentrasi Sodium Hipoklorit Kombinasi Omeprazole 8,5% terhadap Enterococcus Faecalis. *Jurnal Kedokteran Gigi*, *5*(2), 139–149.

Kurnia, D., Sari, F. B. M., & Budiana, W. (2020). Antibacterial Activity of Marine Microalgae Navicula salinicola Extract Against Propionibacterium acnes and Staphylococcus epidermidis. *Jurnal Kartika Kimia*, *3*(2), 53–59. https://doi.org/10.26874/jkk.v3i2.65

Kurniawan, S. E., Mahyarudin Mahyarudin, & Ambar Rialita. (2021). Aktivitas antibakteri isolat bakteri endofit daun pegagan (Centella asiatica) terhadap Staphylococcus aureus. *Bioma : Jurnal Ilmiah Biologi*, *10*(1), 14–29. https://journal.upgris.ac.id/index.php/bioma/article/view/7140/3943

Kurniawati, E. (2017). DAYA ANTIBAKTERI EKSTRAK ETANOL TUNAS BAMBU APUS TERHADAP BAKTERI Escherichia coli dan Staphylococcus aureus SECARA IN VITRO. *Jurnal Wiyata: Penelitian Sains Dan Kesehatan*, *2*(2), 193–199.

Kusuma, A. E., & Aprileili, D. A. (2022). PENGARUH JUMLAH PELARUT TERHADAP RENDEMEN EKSTRAK DAUN KATUK (Sauropus androgynus L. Merr). *SITAWA Jurnal Farmasi Sains Dan Obat Tradisional*, *1*(2), 125–135. https://doi.org/10.62018/sitawa.v1i2.22

Lamaga, F. E., Nazila, H., Fitri, R., & Putri, F. M. S. (2019). FORMULATION CREAM OF EXTRACT NUTSEDGE ROOT (Cyperus rotundus) AND ANTIBACTERIAL ACTIVITY TEST FOR Staphylococcus aureus ATCC 25923. *Jurnal Kesehatan Madani Medika*, *10*(1). https://doi.org/10.36569/jmm.v10i1.54

Lee, E., & Anjum, F. (2022). Staphylococcus epidermidis infection. In *PubMed*. StatPearls Publishing. https://www.ncbi.nlm.nih.gov/books/NBK563240/

Liang, Y., Acor, H., McCown, M. A., Nwosu, A. J., Boekweg, H., Axtell, N. B., Truong, T., Cong, Y., Payne, S. H., & Kelly, R. (2020). Fully Automated Sample Processing and Analysis Workflow for Low-Input Proteome Profiling. *Analytical Chemistry*, *93*(3), 1658–1666. https://doi.org/10.1021/acs.analchem.0c04240

Listyorini, N. M. D., Wijayanti, N. L. P. D., & Astuti, K. W. (2018). OPTIMASI PEMBUATAN NANOEMULSI VIRGIN COCONUT OIL. *Jurnal Kimia*, *12*(1), 8–12. https://doi.org/10.24843/jchem.2018.v12.i01.p02

Luz, M., Desi Indriarini, & Rr.Listyawati Nurina. (2021). UJI AKTIVITAS EKSTRAK ETANOL DAUN KEMANGI (OCIMUM SANCTUM L.) TERHADAP PERTUMBUHAN BAKTERI ESCHERICHIA COLI SECARA IN VITRO. *Cendana Medical Journal*, *9*(1), 102–111. https://doi.org/10.35508/cmj.v9i1.4942

M. Abdallah, E. (2021). The skin commensal Staphylococcus epidermidis, is a boon or bane? *Novel Research in Microbiology Journal*, *5*(1), 1057–1062. https://doi.org/10.21608/nrmj.2021.149372

Manongko, P. S., Sangi, M. S., & Momuat, L. I. (2020). Uji Senyawa Fitokimia dan Aktivitas Antioksidan Tanaman Patah Tulang (Euphorbia tirucalli L.). *Jurnal MIPA*, *9*(2), 64. https://doi.org/10.35799/jmuo.9.2.2020.28725

MARDIKASARI, S. A., JUFRI, M., & DJAJADISASTRA, J. (2016). Formulasi dan Uji Penetrasi In-Vitro Sediaan Topikal Nanoemulsi Genistein dari Tanaman Sophora japonica Linn. *JURNAL ILMU KEFARMASIAN INDONESIA*, *14*(2), 190–198. http://jifi.farmasi.univpancasila.ac.id/index.php/jifi/article/view/30

Marpaung, M. P., & Septiyani, A. (2020). PENENTUAN PARAMETER SPESIFIK DAN NONSPESIFIK EKSTRAK KENTAL ETANOL BATANG AKAR KUNING (Fibraurea chloroleuca Miers). *Journal of Pharmacopolium*, *3*(2). https://doi.org/10.36465/jop.v3i2.622

Maryam, F., Taebe, B., & Toding, D. P. (2020). Pengukuran Parameter Spesifik Dan Non Spesifik Ekstrak Etanol Daun Matoa (Pometia pinnata J.R & G.Forst). *Jurnal Mandala Pharmacon Indonesia*, *6*(01), 1–12. https://doi.org/10.35311/jmpi.v6i01.39

McClements, D. J. (2012). Nanoemulsions versus microemulsions: terminology, differences, and similarities. *Soft Matter*, *8*(6), 1719–1729. https://doi.org/10.1039/c2sm06903b

Megawasti, Sukmawati, & Aminah. (2022). Uji Aktivitas Antioksidan Fraksi Etil Asetat Daun Asam Jawa (Tamarindus Indica L) Dengan Metode DPPH (1,1 Diphenyl-2-Picrylhydrazil). *Wal'afiat Hospital Journal*, *2*(2), 95–102. https://doi.org/10.33096/whj.v2i2.77

Mulyadi, Moh., Wuryanti, W., & Sarjono, P. R. (2017). 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. https://doi.org/10.14710/jksa.20.3.130-135

Muslim, Z., Khasanah, H. R., & Sari, Y. (2021). Simplicia Characterization And Phytochemical Screening Of Secondary Metabolite Compounds Ethanol Extract Of Trembesi Leaves (Samanea saman). *SANITAS: Jurnal Teknologi Dan Seni Kesehatan*, *12*(2), 131–140. https://doi.org/10.36525/sanitas.2021.12

Muthoharoh, H., Nikmah, K., Kunci, K., Total, F., & Teki, R. (2019). Analisis Kadar Flavonoid Total Ekstrak Umbi Rumput Teki (Cyperus Rotundus L.). *Jurnal Ilmiah : J-HESTECH*, *2*(2), 127–132. https://doi.org/10.25139/htc.v%vi%i.2075

Nabillah, S., Noval, N., & Hidayah, N. (2022). FORMULASI DAN EVALUASI NANO HIDROGEL EKSTRAK DAUN SERUNAI (Chromolaena odorata L.) DENGAN VARIASI KONSENTRASI POLIMER CARBOPOL 980. *Jurnal Ilmiah Ibnu Sina (JIIS) Ilmu Farmasi Dan Kesehatan*, *7*(2), 340–349. https://doi.org/10.36387/jiis.v7i2.995

Nastiti, C., Ponto, T., Abd, E., Grice, J., Benson, H., & Roberts, M. (2017). Topical Nano and Microemulsions for Skin Delivery. *Pharmaceutics*, *9*(4), 37–37. https://doi.org/10.3390/pharmaceutics9040037

Nofita, D., & Dewangga, R. (2022). Optimasi Perbandingan Pelarut Etanol Air Terhadap Kadar Tanin pada Daun Matoa (Pometia pinnata J.R & G. Forst) Secara Spektrofotometri. *Chimica et Natura Acta*, *9*(3). https://doi.org/10.24198/cna.v9.n3.36768

Nouioui, I., Carro, L., García-López, M., Meier-Kolthoff, J. P., Woyke, T., Kyrpides, N. C., Pukall, R., Klenk, H.-P., Goodfellow, M., & Göker, M. (2018). Genome-Based Taxonomic Classification of the Phylum Actinobacteria. *Frontiers in Microbiology*, *9*. https://doi.org/10.3389/fmicb.2018.02007

Nugrahanti, D. D., Sari, G. K., & Pistanty, M. A. (2023). UJI EFEKTIVITAS ANTIBAKTERI EKSTRAK ETANOL 70% DAUN BELIMBING MANIS (Averrhoa carambola L.) DARI DESA TARUB TERHADAP BAKTERI Staphylococcus aureus. *Joseph: Journal of Science and Pharmacy*, *3*(1), 12–22. https://josephjournal.org/index.php/joseph/article/view/18

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

Nurhidayati, S., Faturrahman, F., & Ghazali, M. (2015). DETEKSI BAKTERI PATOGEN YANG BERASOSIASI DENGAN Kappaphycus alvarezii (Doty) BERGEJALA PENYAKIT ICE-ICE. *Jurnal Sains Teknologi & Lingkungan*, *1*(2). https://doi.org/10.29303/jstl.v1i2.53

Nurjanah, S., Rokiban, A., & Irawan, E. (2018). Ekstrak Umbi Rumput Teki (Cyperus Rotundus) Sebagai Antibakteri Terhadap Staphylococcus Epidermidis Dan Propionibacterium Acnes. *Biosfer: Jurnal Tadris Biologi*, *9*(2), 165–175. https://doi.org/10.24042/biosfer.v9i2.3800

Nurjannah, I., Mustariani, B. A. A., & Suryani, N. (2022). SKRINING FITOKIMIA DAN UJI ANTIBAKTERI EKSTRAK KOMBINASI DAUN JERUK PURUT (Citrus hystrix) DAN KELOR (Moringa oleifera L.) SEBAGAI ZAT AKTIF PADA SABUN ANTIBAKTERI. *SPIN*, *4*(1), 23–36. https://doi.org/10.20414/spin.v4i1.4801

Nurrahman, A., Amalia, A. R., & Hartoyo, A. O. N. (2024). Formulation and Physicochemical Evaluation of Spray Gel Containing Cordyline fruticosa L. Leaf Extract for Topical Delivery. *Natural Sciences Engineering and Technology Journal*, *4*(2), 352–364. https://doi.org/10.37275/nasetjournal.v4i2.57

Nuruwe, C., Matinahoru, J. M., & Hadijah, M. H. (2020). Isolasi dan Identifikasi Bakteri Endofit Beberapa Jenis Pohon Berhabitat Basah. *JURNAL BUDIDAYA PERTANIAN*, *16*(1), 65–70. https://doi.org/10.30598/jbdp.2020.16.1.65

Okafor-Elenwo, E., Otote, O., & Izevbuwa, O. (2021). Characterization of Bacterial isolates and Occurrence of Parasitic Nematodes Associated with frozen Mackerel fish (Scomber scombrus) sold in some parts of Edo State, Nigeria. *Research Journal of Agriculture and Environmental Management*, *10*(2), 12–17.

Öztürk, K., Kaplan, M., & Çalış, S. (2024). Effects of nanoparticle size, shape, and zeta potential on drug delivery. *International Journal of Pharmaceutics*, *666*, 124799–124799. https://doi.org/10.1016/j.ijpharm.2024.124799

Paiva-Santos, A. C., Mascarenhas-Melo, F., Coimbra, S. C., Pawar, K. D., Peixoto, D., Chá-Chá, R., Araujo, A. R., Cabral, C., Pinto, S., & Veiga, F. (2021). Nanotechnology-based formulations toward the improved topical delivery of anti-acne active ingredients. *Expert Opinion on Drug Delivery*, *18*(10), 1435–1454. https://doi.org/10.1080/17425247.2021.1951218

Pambudi, K., Reni Ariastuti, & Ahwan Ahwan. (2023). Formulasi Nanoemulgel Ekstrak Biji Kopi Robusta (Coffea canephora Pierre) Dengan Variasi Gelling Agent Sebagai Antioksidan. *Jurnal Farmasi Indonesia*, *20*(1), 11–23. https://doi.org/10.31001/jfi.v20i1.1518

Pande, I. K. S., Wintariani, N. P., & Putra, W. (2023). Uji Efektivitas Antibakteri Ekstrak Etanol 96% Tanaman Gonda (Sphenoclea zeylanica Gaertn) terhadap Staphylococcus aureus. *Jurnal Ilmiah Medicamento*, *9*(1), 61–69. https://doi.org/10.36733/medicamento.v9i1.4644

Pandi, P., Jain, A., Kommineni, N., Ionov, M., Bryszewska, M., & Khan, W. (2018). Dendrimer as a new potential carrier for topical delivery of siRNA: A comparative study of dendriplex vs. lipoplex for delivery of TNF-α siRNA. *International Journal of Pharmaceutics*, *550*(1-2), 240–250. https://doi.org/10.1016/j.ijpharm.2018.08.024

Pangisian, J., Sangi, M., & Kumaunang, M. (2022). Analisis Senyawa Metabolit Sekunder dan Uji Aktivitas Antioksidan serta Antibakteri Biji Buah Pangi (Pangium edule Reinw) Analysis of Secondary Metabolite Compounds and Determination of Antioxidant and Antibacterial Activity of Pangi Seeds (Pangium edule Reinw). *Jurnal LPPM Bidang Sains Dan Teknologi*, *7*(1).

Pratiwi, Y. P., Arruansaratu, E., & Jumaetri, F. (2022). ANALISIS KADAR TOTAL ALKALOID DARI BEBERAPA EKSTRAK DAUN PATIKALA (Etlingera Elatior (Jack) R.M. Smith). *Metabolomics in Pharmacy: Peluang Dan Tantangan Kefarmasian Dalam Penemuan, Pengembangan, Dan Evaluasi Mutu Obat Bahan Alam*. Seminar Nasional Kefarmasian, Manado.

Prihanto, A. A., Timur, H. D. L., Jaziri, A. A., Nurdiani, R., & Pradarameswari, K. A. (2018). ISOLASI DAN IDENTIFIKASI BAKTERI ENDOFIT MANGROVE Sonneratia alba PENGHASIL ENZIM GELATINASE DARI PANTAI SENDANG BIRU, MALANG, JAWA TIMUR. *Indonesia Journal of Halal*, *1*(1), 31. https://doi.org/10.14710/halal.v1i1.3114

Pujiastuti, P., Sugiarti, S., & Hardjito, Y. (2021). PERBANDINGAN KADAR FLAVONOID TOTAL EKSTRAK ETANOL 70% DAN 96% KULIT

BUAH NAGA MERAH (Hylocereus polyrhizus) DENGAN SPEKTROFOTOMETRI . *Cendekia Journal of Pharmacy*, *19*(2).

Pund, S., Pawar, S., Shashikant Gangurde, & Deepali Divate. (2015). Transcutaneous delivery of leflunomide nanoemulgel: Mechanistic investigation into physicomechanical characteristics, in vitro anti-psoriatic and anti-melanoma activity. *International Journal of Pharmaceutics*, *487*(1-2), 148–156. https://doi.org/10.1016/j.ijpharm.2015.04.015

Rahmah, A. F., Arma, U., Lestari, C., Edrizal, & Zia, H. K. (2024). Uji zona hambat ekstrak metanol teripang putih (holothuria scabra) mentawai terhadap Streptococcus sanguinis pada Stomatitis Aftosa Rekuren secara in vitro: studi eksperimental. *Padjadjaran Journal of Dental Researchers and Students*, *8*(1), 71–71. https://doi.org/10.24198/pjdrs.v8i1.52551

Rahman, A. G., Astuti, I. Y., & Dhiani, B. A. (2013). FORMULASI LOTION EKSTRAK RIMPANG BANGLE (Zingiber purpureum Roxb) DENGAN VARIASI KONSENTRASI TRIETANOLAMIN SEBAGAI EMULGATOR DAN UJI IRITASINYA. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, *10*(1), 158647. https://doi.org/10.30595/pharmacy.v10i1.780

Rahman, A., Anwar, R., & Yuliana Sabarina Lewar. (2023). Identification of Secondary Metabolite Compounds in Nut Grass (Cyperus rotundus L.) Using Different Solvents Types. *Median Jurnal Ilmu Ilmu Eksakta*, *15*(3), 136–145. https://doi.org/10.33506/md.v15i3.2788

Rahmawati, Marcellia, S., & Nofita. (2022). UJI EFEKTIVITAS FORMULASI SEDIAAN SPRAY EKSTRAK DAUN NANGKA (Artocarpus heterophyllus L.) SEBAGAI REPELAN NYAMUK Aedes aegypti. *Jurnal Ilmu Kedokteran Dan Kesehatan*, *9*(3). https://doi.org/10.33024/jikk.v9i3.5525

Rollando. (2019). UJI ANTIMIKROBA MINYAK ATSIRI MASOYI (Massoia aromatica) TERHADAP BAKTERI Streptococcus mutans. *Majalah Farmasi Dan Farmakologi*, *23*(2), 52–57. https://doi.org/10.20956/mff.v23i2.6585

Romadhonsyah, F., Nanda, A., Fitria, A., Nugraha, A. T., Ramadani, A. P., & Khasanah, N. (2024). AKTIVITAS ANTIBAKTERI DAN ANTIBIOFILM DARI EKSTRAK DAUN BANGUN-BANGUN (Coleus amboinicus L.) TERHADAP BAKTERI Staphylococcus aureus. *Jurnal Ilmiah Ibnu Sina*, *9*(2). https://doi.org/10.36387/sf6kbk88

Rosmania, & Fitri Yanti. (2020). Perhitungan jumlah bakteri di Laboratorium Mikrobiologi menggunakan pengembangan metode Spektrofotometri. *Jurnal Penelitian Sains*, *22*(2), 76–86. https://ejurnal.mipa.unsri.ac.id/index.php/jps/article/view/564/565

Rosyadi, A., Triatmoko, B., & Nugraha, A. S. (2022). Isolation of Estuary Soil Fungi and Screening Antibacterial Activity Against Staphylococcus aureus. *Indonesian Journal of Pharmaceutical Science and Technology*, *9*(1), 17–25. https://repository.unej.ac.id/xmlui/handle/123456789/114695

Rowe, R. C., Sheskey, P. J., & Quinn, M. E. (2009). *Handbook of pharmaceutical excipients* (6th edition). Pharmaceutical Press.

Saifuddin, A., Rahayu, V., dan Teruna, H., Y. (2011). *Standarisasi Bahan Obat Alam*. Graha Ilmu : Yogyakarta.

Saka, R., Jain, H., Nagavendra Kommineni, Naveen Chella, & Khan, W. (2020). Enhanced penetration and improved therapeutic efficacy of bexarotene via topical liposomal gel in imiquimod induced psoriatic plaque model in BALB/c mice. *Journal of Drug Delivery Science and Technology*, *58*, 101691–101691. https://doi.org/10.1016/j.jddst.2020.101691

Sanjaya, D. A., Meriyani, H., Juanita, RR. A., & Siada, N. B. (2022). Kajian Literatur: Profil Resistensi Salmonella typhi dan Pemilihan Antibiotik Pada Demam Tifoid. *JPSCR : Journal of Pharmaceutical Science and Clinical Research*, *7*(2), 107–107. https://doi.org/10.20961/jpscr.v7i2.56656

Sapara, T., Waworuntu, O., & Juliatri. (2016). EFEKTIVITAS ANTIBAKTERI EKSTRAK DAUN PACAR AIR (Impatiens balsamina L.) TERHADAP PERTUMBUHAN Porphyromonas gingivalis. *PHARMACON: Jurnal Ilmiah Farmasi*, *5*(4).

Saptowo, A., Supriningrum, R., & Supomo, S. (2022). UJI AKTIVITAS ANTIBAKTERI EKSTRAK KULIT BATANG SEKILANG (Embeliaborneensis Scheff) TERHADAP BAKTERI Propionibacterium acnes dan Staphylococcus epidermidis. *AL-ULUM: JURNAL SAINS DAN TEKNOLOGI*, *7*(2), 93. https://doi.org/10.31602/ajst.v7i2.6331

Sarathlal, K. C., Kakoty, V., Krishna, K. V., Dubey, S. K., Chitkara, D., & Taliyan, R. (2021). Neuroprotective Efficacy of Co-Encapsulated Rosiglitazone and Vorinostat Nanoparticle on Streptozotocin Induced Mice Model of Alzheimer Disease. *ACS Chemical Neuroscience*, *12*(9), 1528–1541. https://doi.org/10.1021/acschemneuro.1c00022

Schoch, C. L., Ciufo, S., Domrachev, M., Hotton, C. L., Kannan, S., Khovanskaya, R., Leipe, D., Mcveigh, R., O'Neill, K., Robbertse, B., Sharma, S., Soussov, V., Sullivan, J. P., Sun, L., Turner, S., & Karsch-Mizrachi, I. (2020). NCBI Taxonomy: a comprehensive update on curation, resources and tools. *Database*, *2020*. https://doi.org/10.1093/database/baaa062

Sengupta, P., & Chatterjee, B. (2017). Potential and future scope of nanoemulgel formulation for topical delivery of lipophilic drugs. *International Journal of Pharmaceutics*, *526*(1-2), 353–365. https://doi.org/10.1016/j.ijpharm.2017.04.068

Severn, M. M., & Horswill, A. R. (2022). 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

Sharma, S. K., & Singh, A. P. (2011). Antimicrobial investigations on rhizomes of Cyperus rotundus Linn. *Der Pharmacia Lettre*, *3*(3), 427–431.

Shen, C., Wang, X., Yu, C., Gao, H., & Chen, X. (2023). A Review of Classification, Biosynthesis, Biological Activities and Potential

Applications of Flavonoids. *Molecules*, *28*(13), 4982–4982. https://doi.org/10.3390/molecules28134982

Sine, Y., & Fallo, G. (2017). Isolasi Bakteri Asam Laktat Pada Perendaman Biji Gude (Cajanus cajan (L) Millsp.). *Bio-Edu: Jurnal Pendidikan Biologi*, *2*(1), 8–10.

Singh, V., Ali, M., Negi, A., Correspondence, M., Ali, & Sultana, S. (2018). Analysis and antimicrobial activity of the essential oil of Cyperus rotundus L. rhizomes. *Journal of Medicinal Plants Studies*, *6*(5), 101–105. https://www.plantsjournal.com/archives/2018/vol6issue5/PartB/6-5-1-444.pdf

Sitohang, I. B. S., Fathan, H., Effendi, E., & Wahid, M. (2019). The susceptibility of pathogens associated with acne vulgaris to antibiotics. *Medical Journal of Indonesia*, *28*(1), 21–27. https://doi.org/10.13181/mji.v28i1.2735

Sonny. (2014). HISTOFISIOLOGI KULIT. *Jurnal Biomedik JBM*, *5*(3). https://doi.org/10.35790/jbm.5.3.2013.4344

Sulistyarini, I., Sari, D. A., & Wicaksono, T. A. (2020). SKRINING FITOKIMIA SENYAWA METABOLIT SEKUNDER BATANG BUAH NAGA (Hylocereus polyrhizus). *Jurnal Ilmiah Cendana Eksakta*, *5*(1). https://doi.org/10.3194/ce.v5i1.3322

Sun, L., Yu, Q., Peng, F., Sun, C., Wang, D., Pu, L., Xiong, F., Tian, Y., Peng, C., & Zhou, Q. (2024). The antibacterial activity of berberine against

Cutibacterium acnes: its therapeutic potential in inflammatory acne. *Frontiers in Microbiology*, *14*. https://doi.org/10.3389/fmicb.2023.1276383

Supomo, S., Sa`adah, H., Syamsul, E. S., & Kintoko, K. (2020). KARAKTERISASI PARAMETER SPESIFIK DAN PARAMETER NON SPESIFIK AKAR KUNING (Fibraurea tinctoria). *Jurnal Ilmiah Ibnu Sina (JIIS) Ilmu Farmasi Dan Kesehatan*, *5*(2), 416–425. https://doi.org/10.36387/jiis.v5i2.592

Sutaria, A. H., Masood, S., Saleh, H. M., & Schlessinger, J. (2023). *Acne Vulgaris*. PubMed; StatPearls Publishing. https://www.ncbi.nlm.nih.gov/books/NBK459173/#:~:text=Acne%20vulgaris%20is%20commonly%20observed%20in%20adolescents%20and%20young%20adults

Syahfari, H., Napitupulu, M., & Febi Irfandi, D. (2023). UJI EFIKASI EKSTRAK KASAR UMBI TEKI (Cyperus rotundus L.) DALAM MENGHAMBAT MIKROBA Propionibacterium acne. *Jurnal Ilmu-Ilmu Pertanian*, *17*(1).

Syamsul, E. S., Anugerah, O., & Supriningrum, R. (2020). PENETAPAN RENDEMEN EKSTRAK DAUN JAMBU MAWAR (Syzygium jambos L. Alston) BERDASARKAN VARIASI KONSENTRASI ETANOL DENGAN METODE MASERASI. *Jurnal Riset Kefarmasian Indonesia*, *2*(3), 147–157. https://doi.org/10.33759/jrki.v2i3.98

Takaeb, M. J., & Leo, M. I. (2023). Identifikasi Metabolit Sekunder pada Sopi Kualin (SOKLIN) yang Dibuat Dengan dan Tanpa Fermentasi di Desa

Kualin Nusa Tenggara Timur. *Jurnal Sains Dan Edukasi Sains*, *6*(2), 111–116. https://doi.org/10.24246/juses.v6i2p111-116

Tambunan, S., & Sulaiman, T. N. S. (2019). Gel Formulation of Lemongrass Essential Oil with HPMC and Carbopol Bases. *Majalah Farmaseutik*, *14*(2), 87. https://doi.org/10.22146/farmaseutik.v14i2.42598

Tan, J. K. L., & Bhate, K. (2015). A global perspective on the epidemiology of acne. *The British Journal of Dermatology*, *172 Suppl 1*(S1), 3–12. https://doi.org/10.1111/bjd.13462

Taufiq, N., Sulfiani, Sugrani, A., & Faradilah, D. S. (2023). UJI AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL KULIT BATANG KAYU JAWA (Lannea coromandelica) TERHADAP Staphylococcus aureus DAN Escherichia coli. *Jurnal Penelitian Farmasi Indonesia*, *12*(1), 37–41. https://doi.org/10.51887/jpfi.v12i1.1761

Teichmann, A., Heuschkel, S., Jacobi, U., Gaëlle Presse, Neubert, R. H. H., Sterry, W., & Lademann, J. (2007). Comparison of stratum corneum penetration and localization of a lipophilic model drug applied in an o/w microemulsion and an amphiphilic cream. *European Journal of Pharmaceutics and Biopharmaceutics*, *67*(3), 699–706. https://doi.org/10.1016/j.ejpb.2007.04.006

Tjiptoningsih, U. G. (2021). UJI DAYA HAMBAT AIR PERASAN BUAH LEMON (CITRUS LIMON (L.) BURM. F.) TERHADAP PERTUMBUHAN BAKTERI AGGREGATIBACTER

ACTINOMYCETEMCOMITANS. *Jurnal Ilmiah Dan Teknologi Kedokteran Gigi*, *16*(2), 86–96. https://doi.org/10.32509/jitekgi.v16i2.1100

Trisia, A., Philyria, R., & Toemon, A. N. (2018). UJI AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL DAUN KALANDUYUNG (Guazuma ulmifolia Lam.) TERHADAP PERTUMBUHAN STAPHYLOCOCCUS AUREUS DENGAN METODE DIFUSI CAKRAM (KIRBY-BAUER). *Anterior Jurnal*, *17*(2), 136–143. https://doi.org/10.33084/anterior.v17i2.12

Tsabitah, A. F., Zulkarnain, A. K., Wahyuningsih, M. S. H., & Nugrahaningsih, D. A. A. (2020). Optimasi Carbomer, Propilen Glikol, dan Trietanolamin Dalam Formulasi Sediaan Gel Ekstrak Etanol Daun Kembang Bulan (Tithonia diversifolia). *Majalah Farmaseutik*, *16*(2), 111. https://doi.org/10.22146/farmaseutik.v16i2.45666

Utami, Y. P., Umar, A. H., Syahruni, R., & Kadullah, I. (2017). *Standardisasi Simplisia dan Ekstrak Etanol Daun Leilem (Clerodendrum minahassae Teisjm. & Binn.)*. https://www.researchgate.net/publication/350241362_Standardisasi_Simplisia_dan_Ekstrak_Etanol_Daun_Leilem_Clerodendrum_minahassae_Teisjm_Binn

Uzma, N. S., Budi, S., & Rahmadani. (2024). Pengaruh Kombinasi Basis Karbopol 940 dan HPMC Terhadap Evaluasi Dan Stabilitas Sediaan Spray Gel

Ekstrak Daun Sembung (Blume balsamifera (L.)). *Journal Pharmaceutical Care and Sciences*, *4*(2), 239–250. https://doi.org/10.33859/jpcs.v4i2.496

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*(101578), 101578. https://doi.org/10.1016/j.bbrep.2023.101578

Wahyuni, R., Syofyan, S., & Yunalti, S. (2017). Formulasi Dan Evaluasi Stabilitas Fisik Suspensi Ibuprofen Menggunakan Kombinasi Polimer Serbuk Gom Arab Dan Natrium Karboksimetilselulosa. *Jurnal Farmasi Higea*, *9*(1), 56–67. https://doi.org/10.52689/higea.v9i1.158

Wang, J.-Z., Yan, C.-H., Zhang, X.-R., Tu, Q.-B., Xu, Y., Sheng, S., Wu, F.-A., & Wang, J. (2020). A novel nanoparticle loaded with methyl caffeate and caffeic acid phenethyl ester against Ralstonia solanacearum—a plant pathogenic bacteria. *RSC Advances*, *10*(7), 3978–3990. https://doi.org/10.1039/c9ra09441e

Wicaksono, M. R. (2019). *Formulasi Dan Uji Stabilitas Fisik Sediaan Gel Semprot Kombinasi Ekstrak Daun Mangkokan (Polyscias Scutellaria) dan Daun Waru (Hibiscus Tiliaceus Linn.) Dengan Karbopol dan Hidroksi Propil Metil Selulosa (HPMC) sebagai Gelling agent* (pp. 36–41) [Skripsi].

Wikantyasning, E. R., & Indianie, N. N. (2021). Optimisasi Tween 80 dan Span 80 Sebagai Emulgator dalam Formula Krim Tabir Surya Kombinasi Ekstrak Etanol Daun Alpukat (Persea americana M.) dan Nanopartikel Seng Oksida

Dengan Metode Simplex Lattice Design. *CERATA Jurnal Ilmu Farmasi*, *12*(1), 20–28. https://doi.org/10.61902/cerata.v12i1.198

Wulandari, D., Amatullah, L. H., Lunggani, A. T., Pratiwi, A. R., & Budiharjo, A. (2024). Antibacterial Activity and Molecular Identification of Soft Coral Sinularia sp. Symbiont Bacteria from Karimunjawa Island against Skin Pathogens Propionibacterium acnes and Staphylococcus epidermidis. *BIO Web of Conferences*, *92*, 02001–02001. https://doi.org/10.1051/bioconf/20249202001

Y.P.M., I. R., & Azizah, N. (2021). FORMULASI SPRAY GEL ANTI LUKA DARI EKSTRAK DAUN BINAHONG (Anredera cordifolin (Tenore) Steen). *HERBAPHARMA : Journal of Herb Farmacological*, *3*(1), 1–8. https://doi.org/10.55093/herbapharma.v3i1.256

Yana, Y., Adhiksana, A., & Amborowati, C. (2023). IDENTIFIKASI SENYAWA METABOLIT SEKUNDER DAN UJI TOKSISITAS HASIL FRAKSINASI EKSTRAK KULIT BUAH NAGA MERAH (Hylocereus polyrhizus). *JURNAL TEKNIK KIMIA VOKASIONAL (JIMSI)*, *3*(1), 15–21. https://doi.org/10.46964/jimsi.v3i1.364

Ynalvez, R. A., & Compean, K. L. (2014). Antimicrobial Activity of Plant Secondary Metabolites: A Review. *Research Journal of Medicinal Plant*, *8*(5), 204–213. https://doi.org/10.3923/rjmp.2014.204.213

Zhou, X., & Li, Y. (2015a). *Atlas of oral microbiology from healthy microflora to disease* (p. 54). Amsterdam [U.A.] Elsevier Acad. Press.

Zhou, X., & Li, Y. (2015b). *Atlas of oral microbiology from healthy microflora to disease* (pp. 70–72). Amsterdam [U.A.] Elsevier Acad. Press.

Zubaydah, W. O. S., Novianti, R., & Indalifiany, A. (2022). Pengembangan dan pengujian sifat fisik sediaan spray gel darı ekstrak etanol batang Etlıngera rubroloba menggunakan basıs gel Na-CMC. *Journal Borneo*, *2*(2), 38–49. https://doi.org/10.57174/jborn.v2i2.27