

DAFTAR PUSTAKA

- acosta, Niuris, Elisa Sánchez, Laura Calderón, Manuel Cordoba-Diaz, Damian Cordoba-Diaz, Senne Dom, And Angeles Heras. 2022. “*Physical Stability Studies Of Semi-Solid Formulations From Natural Compounds Loaded With Chitosan Microspheres.*” *Marine Drugs* 13(9): 5901–19. Doi:10.3390/Md13095901.
- Adek Chan, Ervina Syahfitri Lubis, Hendri Faisal, And Osy Devitania. 2025. “Pengembangan Cleansing Oil Berbasis Minyak Biji Alpukat (Persea Americana Mill.) Dengan Variasi Konsentrasi Surfaktan Sebagai Pembersih Make-Up Tahan Air.” *Jurnal Indah Sains Dan Klinis* 6(2): 01–07. Doi:10.52622/Jisk.V6i2.01.
- Aktivitas, Uji, Antibakteri Sediaan, Gel Facial-Wash Ekstrak, Secang Dan, Daun Belimbing, And Wuluh Terhadap. 2024. “Pharmacy Genius.” 03(02): 82–92.
- Al-Barghouthy, Elham Y., Saja Hamed, Ghadeer F. Mehyar, And Hatim S. Alkhatib. 2025. “*Comparative Evaluation Of Spreadability Measurement Methods For Topical Semisolid Formulations/A Scoping Review.*” *Gels* 11(12): 1–22. Doi:10.3390/Gels11121006.
- Alhassan, Alhassan Muhammad, And Qamar Uddin Ahmed. 2021. “Averrhoa Bilimbi Linn.: A Review Of Its Ethnomedicinal Uses, Phytochemistry, And Pharmacology.” *Journal Of Pharmacy & Bioallied Sciences* 8(4): 265–71. Doi:10.4103/0975-7406.199342.
- Amanda Yunisya, Syafrina Lamin, Viva Starlista. 2025. “Skrining Fitokimia Ekstrak (Averrhoa Blimbi L.) Daun Dan Buah Tanaman Belimbing Wuluh.” 7: 96–99.
- Ambari, Yani, Fitra Nanda, Dwi Hapsari, Arista Wahyu Ningsih, Iif Hanifa Nurrosyidah, And Butet Sinaga. 2020. “Studi Formulasi Sediaan Lip Balm Ekstrak Kayu Secang (*Caesalpinia Sappan* L .) Dengan Variasi Beeswax.” 5(2): 36–45.
- Anonim. 2023. *Suplemen Ii Farmakope Indonesia Edisi Vi*.
- Apt. Ira Rahmiyani, M. Si, M. Farm Vera Nurviana, M. Farm Apt. Nur Aji, And M. Si Diana Sri Zustika. 2021. *Farmakognosi*. Tasikmalaya: Perkumpulan

Rumah Cemerlang Indonesia.

- Ariem, Feiby, Paulina V.Y Yamlean, And Julianri Sari Lebang. 2020. "Formulations And Antioxidant Efficacy The Cream Leaf Extract Of The Belimbing Wuluh (*Averrhoa Bilimbi* L.)." *Pharmacon* 9(4): 501. <https://ejournal.unsrat.ac.id/index.php/pharmacon/article/view/31355>.
- Aryantini, Dyah, And Fita Sari. 2017. "Uji Aktivitas Antibakteri Fraksi Aktif Terstandar Flavonoid Dari Daun Belimbing Wuluh (*Averrhoa Bilimbi* L.) Antibacterial Activity Assay Of Standardized Active Fraction From Belimbing Wuluh Leaf (*Averrhoa Bilimbi* L.)." : 143–50.
- Aydemir, Ertuğrul H. 2014. "Acne Vulgaris." : 13–16. Doi:10.5152/Tpa.2014.1943.
- Azam, Faizul, Mohammed H. Alqarni, Sulaiman Mohammed Alnasser, Prawez Alam, Talha Jawaid, Mehnaz Kamal, Shamshir Khan, And Aftab Alam. 2023. "Formulation, In Vitro And In Silico Evaluations Of Anise (*Pimpinella Anisum* L.) Essential Oil Emulgel With Improved Antimicrobial Effects." *Gels* 9(2). Doi:10.3390/Gels9020111.
- Azizah, Lukita, Janti Gunawan, And Puti Sinansari. 2021. "Pengaruh Pemasaran Media Sosial Tiktok Terhadap Kesadaran Merek Dan Minat Beli Produk Kosmetik Di Indonesia." 10(2).
- Badan, Kepala, Pengawas Obat, And D A N Makanan. 2019. "Badan Pengawas Obat Dan Makanan Republik Indonesia." 2010.
- Badrudodoza, Abu Zayed Md, Thean Yeoh, Jaymin C Shah, And Taylor Walsh. 2023. "Assessing And Predicting Physical Stability Of Emulsion-Based Topical Semisolid Products: A Review." *Journal Of Pharmaceutical Sciences* 112(7): 1772–93. Doi:10.1016/J.Xphs.2023.03.014.
- Balouiri, Mounyr, Moulay Sadiki, And Saad Koraichi Ibnsouda. 2022. "Methods For In Vitro Evaluating Antimicrobial Activity : A Review \$." 6: 71–79.
- Barel, A.O., Paye, M., & Maibach, H.I. 2014. *Handbook Of Cosmetic Science And Technology*. Crc Press.
- Brooks, Sarah G., Rami H. Mahmoud, Rachel R. Lin, Joachim W. Fluhr, And Gil Yosipovitch. 2025. "The Skin Acid Mantle: An Update On Skin Ph." *Journal Of Investigative Dermatology* 145(3): 509–21.

Doi:10.1016/J.Jid.2024.07.009.

- Charoennit, P. Lourith, N. 2023. “*Validated Uv-Spectrophotometric Method For The Evaluation Of The Efficacy Of Makeup Remover.*” *International Journal Of Cosmetic Science*: 34: 190-192. Doi:Doi.Org/10.1111/J.1468-2494.2012.00701.X.
- Cushnie, T. P.Tim, And Andrew J. Lamb. 2023. “*Recent Advances In Understanding The Antibacterial Properties Of Flavonoids.*” *International Journal Of Antimicrobial Agents* 38(2): 99–107. Doi:10.1016/J.Ijantimicag.2011.02.014.
- Desinta, Nindi, Laila Putri, Cita Hanif Muflihah, Laboratorium Biologi Farmasi, Fakultas Farmasi, And Universitas Muhammadiyah Surakarta. 2024. “Uji Aktivitas Antibakteri Penyebab Jerawat *Propionibacterium Acnes* Dan *Staphylococcus Aureus* Menggunakan Ekstrak Dan Fraksi Jintan Hitam (*Nigella Sativa*) Serta *Bioautografinya Antibacterial Activity From Extracts And Fractions Of Black Cumin (Nigella S.*” 3(3): 272–87.
- Dréno, B, T Zuberbier, C Gelmetti, G Gontijo, And M Marinovich. 2022. “*Safety Review Of Phenoxyethanol When Used As A Preservative In Cosmetics.*” *Journal Of The European Academy Of Dermatology And Venereology : Jeadv* 33 Suppl 7: 15–24. Doi:10.1111/Jdv.15944.
- Efrilia, Mega, Pra Panca Bayu Chandra, And Santi Endrawati. 2024. “Uji Mutu Simplisia Dan Ekstrak Etanol 96% Rimpang Jahe (*Zingiber Officinale* Roscoe).” *Pharma Xplore : Jurnal Sains Dan Ilmu Farmasi* 9(1): 36–50. Doi:10.36805/Jpx.V9i1.6817.
- Febriyanti, Dina, Ernie Halimatushadyah, Dyah Ayuwati Waluyo, And Kartika Rahma. 2023. “Formulasi Dan Uji Aktivitas Krim Antijerawat Ekstrak Daun Belimbing Wuluh (*Averrhoa Bilimbi* L .) Terhadap Bakteri *Staphylococcus Epidermidis.*” (1): 129–40.
- Firmansyah, Ferdy, Reihan Khairiati, Wildan Khairi Muhtadi, And Lutfi Chabib. 2022. “Uji Aktivitas Antibakteri Serum Ekstrak Etanol Buah Belimbing Wuluh Terhadap *Propionibacterium Acnes* , *Staphylococcus Aureus* , Dan *Staphylococcus Epidermis.*” 26(2): 69–73. Doi:10.20956/Mff.V26i2.18578.
- Garg, Alka, Deepika Aggarwal, Sanjay Garg, And Anil K. Singla. 2022.

- “*Spreading Of Semisolid Formulations: An Update.*” *Pharmaceutical Technology North America* 26(9): 84–105.
- Hanifah Arini Putri, Hanifah Arini Putri, And Dina Mulyanti. 2023. “Karakterisasi Simplisia Dan Ekstrak Etanol Daun Pegagan (*Centella Asiatica* (L.) Urban).” *Jurnal Riset Farmasi*: 43–48. Doi:10.29313/Jrf.V3i1.3120.
- Helena Oktaviani Handojo, Nikmatul Ikhrom Eka Jayani. 2018. “Standarisasi Simplisia Daun Tempuyung (*Sonchi Folium*) Hasil Budidaya Di Ubaya Training Center Trawas Mojokerto.” 1(1): 68–79.
- Ilić, Tanja, Ivana Pantelić, And Snežana Savić. 2021. “*The Implications Of Regulatory Framework For Topical Semisolid Drug Products: From Critical Quality And Performance Attributes Towards Establishing Bioequivalence.*” *Pharmaceutics* 13(5). Doi:10.3390/Pharmaceutics13050710.
- Ismoyo, Mellynia, Chresiani Destianita, Yoedistira, And Eva Monica. 2023. “Jurnal Sains Dan Kesehatan (J. Sains Kes.).” 5(4): 475–85.
- Jannah, Wardatul. 2019. “Uji Efektivitas Gel Ekstrak Etil Asetat Buah Belimbing Wuluh (*Averrhoa Bilimbi* Linn.) Terhadap Bakteri *Propionibacterium Acnes* Dan *Staphylococcus Aureus*.”
- Jin, Xuping, Mohammad Imran, And Yousuf Mohammed. 2022. “*Topical Semisolid Products—Understanding The Impact Of Metamorphosis On Skin Penetration And Physicochemical Properties.*” *Pharmaceutics* 14(11). Doi:10.3390/Pharmaceutics14112487.
- Jung, Nathalie, Sarika Namjoshi, Yousuf Mohammed, Jeffrey E. Grice, Heather A.E. Benson, Sam G. Raney, Michael S. Roberts, And Maike Windbergs. 2022. “*Application Of Confocal Raman Microscopy For The Characterization Of Topical Semisolid Formulations And Their Penetration Into Human Skin Ex Vivo.*” *Pharmaceutical Research* 39(5): 935–48. Doi:10.1007/S11095-022-03245-7.
- Kemenkes Ri. 2022. *Herbal Indonesia Herbal*. Jakarta: Kementerian Kesehatan Ri.
- Kementerian Kesehatan Republik Indonesia. 2017. *Pocket Handbook Of Nonhuman Primate Clinical Medicine Farmakope Herbal Indonesia, Edisi Ii*. Doi:10.1201/B12934-13.
- Khan, Barkat Ali, Sajeel Ahmad, Muhammad Khalid Khan, Khaled M. Hosny,

- Deena M. Bukhary, Haroon Iqbal, Samar S. Murshid, Dkk. 2022. “*Fabrication And Characterizations Of Pharmaceutical Emulgel Co-Loaded With Naproxen-Eugenol For Improved Analgesic And Anti-Inflammatory Effects.*” *Gels* 8(10). Doi:10.3390/Gels8100608.
- Kusmiyati, Mimin, Yayat Sudaryat, Zuri Rismiarti, Elsa Dewita Sari, Jurusan Farmasi, Politeknik Kesehatan, Kemenkes Bandung, Dkk. 2023. “Uji Aktivitas Ekstrak Daun Dan Buah Belimbing Wuluh (*Averrhoa Bilimbi*) Sebagai Antidiabetes Melalui Inhibisi A -Amilase.” 15(1): 163–71.
- Listina, Osie, Oktariani Pramiastuti, Lutfatul Khasanah, Program Studi Farmasi S- , And Fakultas Ilmu Kesehatan. 2023. “Aktivitas Antibakteri Kombinasi Ekstrak Daun Belimbing Wuluh (*Averrhoa Bilimbi* L.) Dan Ekstrak Rimpang Kunyit (*Curcuma Longa* L.) Terhadap *Staphylococcus Aureus* Antibacterial Activity Of Combination Of Ethanol Extract Of Belimbing Wuluh Leaves (*Averrhoa Bi.*” : 26–35.
- Lukić, Milica, Ivana Pantelić, And Snežana D. Savić. 2021. “*Towards Optimal Ph Of The Skin And Topical Formulations: From The Current State Of The Art To Tailored Products.*” *Cosmetics* 8(3). Doi:10.3390/Cosmetics8030069.
- Marbun Eva Dian Sari, Safitri Alfi, Panjaitan Grace Emmas Sondang, Simamarta Nely Monica, Harefa Niat Febriyanti, And Nabilla Sintia. 2025. “*Standarisasi Parameter Spesifik Dan Non Spesifik Simplisia Herba Suruhan (Peperomia Pellucida L.) Standardization Of Specific And Non-Specific Parameters Of Suruhan Herb Simplicia (Peperomia Pellucida L.)*.” *Jurnal Intelek Insan Cendekia* 02(08): 16703–16. <https://jicnusanantara.com/index.php/jiic>.
- Mardiyanti, Devi, And Willi Wahyu Timur. 2024. “Formulasi Dan Uji Aktivitas Fisik Sediaan Pembersih Wajah Ekstrak Daun Salam (*Syzygium Polyanthum*) Serta Aktivitas Antibakterinya Terhadap *Propionibacterium Acnes* Formulation And Physical Activity Testing Of *Syzygium Polyanthum* Leaf Extract Facial Clean.” 3(2): 217–26.
- Maslahah, Nur. 2024. “Standar Simplisia Tanaman Obat Sebagai Bahan Sediaan Herbal.” *Balai Pengujian Standar Instrumen Tanaman Rempah, Obat Dan Aromatik (Bsip Troa)* 2(2): 1–4.
- Mustofa, Choiril Hana, Anita Agustina Styawan, Muchson Arrosyid, Hendra

- Budiman, And Anna Latifah. 2025. "Penetapan Kadar Flavonoid Total Ekstrak Etanol Buah Belimbing Wuluh (*Averrhoa Bilimbi* L.) Dengan Metode Spektrofotometri Uv-Vis." *Cerata Jurnal Ilmu Farmasi* 15(2): 151–55. Doi:10.61902/Cerata.V15i2.1394.
- Ninis, Yulianti, Fenita Shoviantari, And Lia Agustina. 2020. "Penyuluhan Kosmetik Yang Aman Dan Notifikasi Kosmetik." : 45–49.
- Nugraha, Yogi Rahman, Dani Sujana, And Risma Anugrah Dewi. 2024. "(*Zingiber Officinale* Var . Rubrum) Terhadap Bakteri Streptococcus Mutans Secara In Vitro." 9(2): 77–86.
- Nur, Amran, And Desi Reski Fajar. 2019. "Identifikasi Senyawa Kimia Pada Ekstrak Etanol 70% Buah Belimbing Wuluh (*Averrhoa Bilimbi* L.)." *Kieraha Medical Journal* 1(1): 1–6. Doi:10.33387/Kmj.V1i1.1740.
- Pagalla, Devi Bunga. 2024. *Buku Ekstraksi Bahan Alam Edisi 2024*.
- Partikel, Pengaruh Ukuran, Waktu Dan, Suhu Pada, And From Galangal. 2016. "Fenol Dari Lengkuas Merah Influence Of Particle Size , Time And Temperature To Extract Phenol." 5(4): 53–56.
- Pati Aji Achdiat. 2024. *Dermatologi, Venereologi, Dan Estetika*. Bandung: Unpad Press.
- Pramesty, Sevty Ardhia, Bintari Tri Sukoharjanti, Muhammadiyah Kudus, Muhammadiyah Kudus, And Universitas Muhammadiyah Kudus. 2025. "Formulation And Physical Quality Testing Of Cleansing Balm From *Centella Asiatica* (L .) Urb . Extract With Castor Oil (*Ricinus Communis* L .) As A Makeup Remover." 3(2): 466–80. Doi:https://doi.org/10.60079/Ahr.V3i2.597.
- Putri, Sepvia, Sukma Wibowo, Aliya Azkia Zahra, And Mally Ghinan Sholih. 2024. "Formulasi Dan Evaluasi Sediaan *Cleansing Balm* Berbahan Dasar Minyak Jarak (*Ricinus Communis* L .) Dan Minyak Kelapa Murni (*Cocos Nucifera* L .)." 6(2): 126–33.
- Rachmat Kosman, Saidah Juniasti, St. Maryam. 2015. "Uji Aktivitas Antibakteri Ekstrak Etanol Buah Belimbing Wuluh (*Averrhoa Bilimbi* L.) Asal Kota Watampone." 07(01): 60–69.
- Rachmawati, Aniza, Agung Supriyadi, And Jurnal Endang Kusdiyantinibiologi.

2017. “Identifikasi Senyawa Bioaktif Pada Isolat Bakteri Buah Belimbing Wuluh (*Averrhoa Bilimbi* L.) Sebagai Agensia Hayati *Xanthomonas Oryzae* Pv. *Oryzae* Aniza Rachmawati, Agung Supriyadi, Dan Endang Kusdiyantini.” 6(3).
- Rafianti, Ranti, Magister Pendidikan Biologi, Sekolah Pascasarjana, And Universitas Kuningan. 2019. “Uji Daya Hambat Ekstrak Bawang Merah (*Allium Cepa* L.) Terhadap Pertumbuhan *Salmonella Typhi* Pada Media Nutrient Agar (Na).” 11. Doi:10.25134/Quagga.V11i2.1877.Received.
- Rahman, M. M ., M. , Islam, M. B. , Biswas, And A. H. M. K. , Alam. 2022. “In Vitro Antibacterial Activity Of Medicinal Plant Extractsno Title.” *International Journal Of Pharmaceutical Sciences And Research* 5(7): 2766–2772.
- Richard B, Freedberg, Klauss Wolff, And Goldsmith. 2003. *The Biology Of The Skin*. Usa: Crc Press.
- Rifka Alkhilyatul Ma’rifat, I Made Suraharta, Iryanto Irvan Jaya. 2024. “Pengaruh Ukuran Partikel Dan Rendemen Terhadap Skrining Fitokimia Ekstrak Metanol Daun Belimbing Wuluh (*Averrhoa Bilimbi* L.).” 2(10): 306–12.
- Rowe, Raymond C, Paul J Sheskey, And Siân C Owen. 2009. *Handbook Of*.
- Rusli, Doddy, Ade Arinia, And Putra Asa. 2016. “Formulasi Krim Clindamycin Sebagai Anti Jerawat Dan Uji Efektivitas Terhadap Bakteri *Propionibacterium Acne*.” (2): 5–14.
- Sarah, Siti, Setia Budi, Putri Vidiyari Darsono, Program Studi, Sarjana Farmasi, Fakultas Kesehatan, Universitas Sari Mulia, Dkk. 2024. “Formulasi Dan Uji Stabilitas Sediaan *Cleansing Balm* Ekstrak Biji Buah Alpukat (*Persea Americana* Mill).” : 40–46. Doi:10.33859/Jpcs.V5i1.649.
- Sari, Delia Komala, And Dwi Dominica. 2022. “Original Articel Kalamansi (*Citrofortunella Microcarpa*) Kalamansi (*Citrofortunella Microcarpa*).” 5(2): 181–86.
- Shofiani, Anis. 2015. “Pengaruh Penggunaan Masker Kulit Pisang Ambon Terhadap Kulit Wajah Kering Orang Dewasa.”
- Sifatullah, N U R. 2021. “Jerawat (*Acne Vulgaris*): Review Penyakit Infeksi Pada Kulit.” (November): 19–23.

- Sinko, P. J. 2011. *Martin's Physical Pharmacy And Pharmaceutical Sciences (6th Ed.)*. Philadelphia.
- Stone, H., & Sidel, J.L. 2004. *Sensory Evaluation Practices*. Academic Press.
- Suryaningsih, Sri. 2016. "Belimbing Wuluh (*Averrhoa Bilimbi*) Sebagai Sumber Energi Dalam Sel Galvani." 06(01): 11–17.
- Sutoro, Meylani, Yuniarti Falya, And Restu Damayanti. 2022. "Method And Critical Aspect Of Semisolid Mixing." *Sciences Of Pharmacy* 1(1): 24–37. Doi:10.58920/Sciphar01010020.
- Tasyakuriah, Siti, And Rofidah Nur Umar. 2024. "Formulasi Sediaan Cleansing Balm Mengandung Ekstrak Terpurifikasi Kulit Bawang Merah (*Allium Cepa* L)." : 52–58.
- Tungadi, Robert, Mahdalena Sy Pakaya, And Priliyawati D As Ali. 2023. "Formulasi Dan Evaluasi Stabilitas Fisik Sediaan Krim Senyawa Astaxanthin." 3(1): 117–24. Doi:10.37311/Ijpe.V3i1.14612.
- Wulan, Indah Cahyaning, And Muhammad Hasan Wattiheluw. 2024. "Skrining Fitokimia Dan Analisis Aktivitas Antioksidan Infused Water Buah Belimbing Wuluh Menggunakan Metode Uji Dpph." *Nutriture Journal* 3(3): 127–33. <https://Ojs.Poltekkes-Malang.Ac.Id/Index.Php/Nutriture/Article/View/5077>.
- Yanti, Susi, And Yulia Vera. 2019. "Skrining Fitokimia Ekstrak Daun Belimbing Wuluh (*Averrhoa Bilimbi*)." 4(2): 41–46.
- Zahrah, Halimatus, Arifa Mustika, And Kartuti Debora. 2018. "Aktivitas Antibakteri Dan Perubahan Morfologi Dari *Propionibacterium Acnes* Setelah Pemberian Ekstrak Curcuma Xanthorrhiza." 20(3): 160–69.

