DAFTAR PUSTAKA

Adiningsih, W., Vifta, R., & Yuswantina, R. (2021). Uji Aktivitas Antibakteri Ekstrak Etanol 70% Dan Ekstrak Etanol 96% Buah Strawberry (Fragaria X Ananassa) Terhadap Bakteri Propionibacterium Acnes. *Generics: Journal of Research in Pharmacy*, *1*(1), 1–9. https://doi.org/10.14710/genres.v1i1.9835

Aini, R. N., Listyani, T. A., & Raharjo, D. (2023). Perbandingan Kadar Flavonoid Dan Aktivitas Antioksidan Ekstrak Etanol Dan Infusa Daun Rambutan (Nephelium lappaceum L.) Dengan Metode ABTS. *Jurnal Ilmiah Wahana Pendidikan*, *9*(23), 665–680.

Akinduti, P. A., Motayo, B., Idowu, O. M., Isibor, P. O., Olasehinde, G. I., Obafemi, Y. D., Ugboko, H. U., Oyewale, J. O., Oluwadun, A., & Adeyemi, G. A. (2019). Suitability of spectrophotometric assay for determination of honey microbial inhibition. *Journal of Physics: Conference Series*, *1299*(1). https://doi.org/10.1088/1742-6596/1299/1/012131

Alanazi, M. S., Hammad, S. M., & Mohamed, A. E. (2018). Prevalence and psychological impact of Acne vulgaris among female secondary school students in Arar city, Saudi Arabia, in 2018. *Electronic Physician*, *10*(8), 7224. https://doi.org/10.19082/7224

Alkilani, A. Z., McCrudden, M. T. C., & Donnelly, R. F. (2015). Transdermal Drug Delivery: Innovative Pharmaceutical Developments Based on Disruption of the Barrier Properties of the stratum corneum. *Pharmaceutics*, *7*(4), 438. https://doi.org/10.3390/PHARMACEUTICS7040438

Allen, L. V. (2009). *Handbook of Pharmaceutical Excipients 6th edition* (R. C. Rowe, P. J. Sheskey, & M. E. Quinn, Eds.). Pharmaceutical Press and American Pharmacist Association.

American Academy of Dermatology Association (AAD). (2023). *Acne clinical guideline*. https://www.aad.org/member/clinical-quality/guidelines/acne

Anggraeny, V., Febriyana, R., G, L., & I, M. (2021). Uji Aktivitas Ekstrak Daun Ketapang (Terminalia Catappa L) Terhadap Pertumbuhan Bakteri (Propionibacterium Acnes). *Java Health Jounal*, *8*(1). https://doi.org/10.1210/JHJ.V8I1.407

Araviiskaia, E., Berardesca, E., Bieber, T., Gontijo, G., Sanchez Viera, M., Marrot, L., Chuberre, B., & Dreno, B. (2019). The Impact of Airborne Pollution on Skin. *Journal of the European Academy of Dermatology and Venereology*, *33*(8), 1496–1505. https://doi.org/10.1111/jdv.15583

Arifin, A., Sartini, & Marianti. (2019). Evaluasi Karakteristik Fisik Dan Uji Permeasi Pada Formula Patch Aspirin Menggunakan Kombinasi Etilselulosa Dengan Polivinilpirolidon. *Jurnal Sains Dan Kesehatan*, *2*(1), 40–49. https://doi.org/10.16285/j.rsm.2007.10.006

Balouiri, M., Sadiki, M., & Ibnsouda, S. K. (2016). Methods for in vitro evaluating antimicrobial activity: A review. *Journal of Pharmaceutical Analysis*, *6*(2), 71. https://doi.org/10.1016/J.JPHA.2015.11.005

Bhandari, N., Raja, M. K. M. M., Singh, L. P., Kukreti, G., & Kaushik, S. (2022). A detailed overview on pharmaceutical dosage forms in treatment of acne.

International Journal of Health Sciences, *6*(S4), 9916–9931. https://doi.org/10.53730/IJHS.V6NS4.10847

Bird, D., & Ravindra, N. M. (2020). Transdermal drug delivery and patches—An overview. *Medical Devices & Sensors*, *3*(6), 1–15. https://doi.org/10.1002/mds3.10069

Borbolla-Jiménez, F. V., Peña-Corona, S. I., Farah, S. J., Jiménez-Valdés, M. T., Pineda-Pérez, E., Romero-Montero, A., Del Prado-Audelo, M. L., Bernal-Chávez, S. A., Magaña, J. J., & Leyva-Gómez, G. (2023). Films for Wound Healing Fabricated Using a Solvent Casting Technique. *Pharmaceutics 2023, Vol. 15, Page 1914*, *15*(7), 1914. https://doi.org/10.3390/PHARMACEUTICS15071914

Cheng, L., Cheng, X., Deng, M., Deng, X., Du, Q., Ge, Y., Guo, Q., He, J., Jia, W., Kang, D., Kuang, Y., Li, C., Li, M., Li, Y., Liu, Y. L. C., Liu, X., Lu, C., Peng, X., & Zhu, W. Q. Z. (2015). Chapter 4 - Subgingival Microbes. In X. Zhou & Y. Li (Eds.), *Atlas of Oral Microbiology* (pp. 67–93). Academic Press. https://doi.org/https://doi.org/10.1016/B978-0-12-802234-4.00004-5

Das, S., Sarkar, P., & Majee, S. B. (2022). Polymers in Matrix Type Transdermal Patch. *International Journal of Pharmaceutical Sciences Review and Research*, *73*(14), 77–86. https://doi.org/10.47583/ijpsrr.2022.v73i01.014

Davis, J. L., & Papich, M. G. (2014). Antimicrobial Therapy. *Equine Infectious Diseases: Second Edition*, 571-584.e5. https://doi.org/10.1016/B978-1-4557-0891-8.00065-8

DepKes RI. (2000). *Parameter Standar Umum Ekstrak Tumbuhan Obat*. Departemen Kesehatan RI.

Deswita, W., Manalu, K., & Tambunan, E. P. S. (2021). Uji Efektivitas Antibakteri Ekstrak Umbi Lobak Putih (Raphanus sativus L) terhadap Pertumbuhan Bakteri Propionibacterium acnes dan Staphylococcus epidermidis. *KLOROFIL: Jurnal Ilmu Biologi Dan Terapan*, *5*(2), 111. https://doi.org/10.30821/kfl:jibt.v5i2.10032

Diniatik. (2015). Penentuan Kadar Flavonoid Total Ekstrak Etanolik Daun Kepel (Stelechocarpus burahol (Bl.) Hook F. & Th.) Dengan Metode Spektrofotometri. *Kartika-Jurnal Ilmiah Farmasi*, *3*(1), 1–5.

Effendy, E. M., Taurhesia, S., & Purba, A. V. (2019). Pengembangan Krim Pewarna Rambut Permanen Mengandung Ekstrak Daun Ketapang (Terminalia catappa L) dan Ekstrak Daun Jambu Biji (Psidium guajava L). *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, *16*(2), 356. https://doi.org/10.30595/pharmacy.v16i2.5859

Elya, B., Kusuma, I. M., Jufri, M., & Handayani, R. (2016). Antibacterial tests against acne in vitro, the physical stability and patch test using cream containing ethyl p-methoxycinnamate extracted from Kaempferia galanga L., Rhizoma. *Research Journal of Medicinal Plant*, *10*(8), 426–434. https://doi.org/10.3923/rjmp.2016.426.434

Ermawati, D. E., & Prilantari, H. U. (2019). Pengaruh Kombinasi Polimer Hidroksipropilmetilselulosa dan Natrium Karboksimetilselulosa terhadap Sifat Fisik Sediaan Matrix-based Patch Ibuprofen. *JPSCR : Journal of*

Pharmaceutical Science and Clinical Research, *4*(2), 109. https://doi.org/10.20961/jpscr.v4i2.34525

Fatwami, E. F., & Royani, S. (2023). Skrining Fitokimia dan Uji Antioksidan Ekstrak Daun Cabai Rawit (Capsicum frutescens L.). *Journal Syifa Sciences and Clinical Research*, *5*(2). https://doi.org/10.37311/jsscr.v5i2.20896

Fuziyanti, N., Najihudin, A., & Hindun, S. (2022). Pengaruh Kombinasi Polimer PVP:EC dan HPMC:EC Terhadap Sediaan Transdermal Pada Karakteristik Patch yang Baik : Review. *Pharmaceutical Journal of Indonesia*, *7*(2), 147–152. https://doi.org/10.21776/ub.pji.2022.007.02.10

Gajic, I., Kabic, J., Kekic, D., Jovicevic, M., Milenkovic, M., Mitic Culafic, D., Trudic, A., Ranin, L., & Opavski, N. (2022). Antimicrobial Susceptibility Testing: A Comprehensive Review of Currently Used Methods. *Antibiotics*, *11*(4). https://doi.org/10.3390/ANTIBIOTICS11040427

Gerung, W. H. P., Fatimawali, & Irma, A. (2021). Uji Aktivitas Antibakteri Ekstrak Daun Belimbing Botol (Averrhoa bilimbi L.) Terhadap Pertumbuhan Bakteri Propionibacterium acnes Penyebab Jerawat. *Pharmacon*, *10*(4), 1087–1093.

Gilaberte, Y., Prieto-Torres, L., Pastushenko, I., & Juarranz, Á. (2016). Anatomy and Function of the Skin. In *Nanoscience in Dermatology*. Elsevier Inc. https://doi.org/10.1016/B978-0-12-802926-8.00001-X

Hafsi, W., Arnold, D. L., & Kassardjian, M. (2023). Acne Conglobata. *Journal of the Royal Society of Medicine*, *30*(11), 1338–1341. https://doi.org/10.1177/003591573703001110

Hajrin, W., Subaidah, W. A., Juliantoni, Y., & Wirasisya, D. G. (2021). Application of Simplex Lattice Design Method on The Optimisation of Deodorant Roll-on Formula of Ashitaba (Angelica keiskei). *Jurnal Biologi Tropis*, *21*(2), 501–509. https://doi.org/10.29303/jbt.v21i2.2717

Hamzah, S., Yanti, N. I., Isnaini, N., & Rahmi, N. (2023). Uji Stabilitas Fisik Formulasi Sediaan Patch Antiacne Kombinasi Ekstrak Etanol Buah Kurma Sukkari (Phoenix dactylifera) Dan Madu Murni (Honey Bee) : Physical Stability Test Formulation Of Antiacne Patch Preparations Combination Of Ethanol Extract Of Sukar. *Medical Sains : Jurnal Ilmiah Kefarmasian*, *8*(3), 901–910.

Hauk, L. (2017). Acne Vulgaris: Treatment Guidelines from the AAD. *American Family Physician*, *95*(11), 740–741.

Hidayat, I. R., Zuhrotun, A., & Sopyan, I. (2021). Design-Expert Sebagai Alat Optimasi Formulasi Sediaan Farmasi. *Majalah Farmaksetika*, *6*(1), 99–120.

Hofmann, E. ;, Schwarz, A. ;, Fink, J. ;, Kamolz, L.-P. ;, Kotzbeck, P., Hofmann, E., Schwarz, A., Fink, J., Kamolz, L.-P., & Kotzbeck, P. (2023). Modelling the Complexity of Human Skin In Vitro. *Biomedicines 2023, Vol. 11, Page 794*, *11*(3), 794. https://doi.org/10.3390/BIOMEDICINES11030794

Huda, C., Putri, A. E., Sari, D. W., Putra, K. (2019). Uji Aktivitas Antibakteri Fraksi Dari Maserat Zibethinus Folium Terhadap Escherichiacoli. *Jurnal SainHealth*, *3*(1).

Iijima, S., & Tsunoda, T. (2019). Twenty cases of allergic contact dermatitis due to benzoyl peroxide in acne patients in Japan. *Journal of Cutaneous Immunology and Allergy*, *2*(4), 108–112. https://doi.org/10.1002/CIA2.12069

Inayah, S., Febrina, L., Tobing, N. E. K. P., & Fadraersada, J. (2018). Formulasi dan Evaluasi Sediaan Patch Bukal Mukoadhesif Celecoxib. *Proceeding of Mulawarman Pharmaceuticals Conferences*, *8*, 177–183. https://doi.org/10.25026/mpc.v8i1.321

IQAir. (2022). *Indonesia Air Quality Index (AQI) and Air Pollution information | IQAir*. https://www.iqair.com/indonesia

ITIS. (2023). *Report: Terminalia catappa L.* https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=27762#null

Jaggi Rao. (2020). *Acne Vulgaris Treatment & Management*. Medscape. https://emedicine.medscape.com/article/1069804-treatment?form=fpf

Johnson, W., 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. (2017). Safety Assessment of Benzyl Alcohol, Benzoic Acid and its Salts, and Benzyl Benzoate. *International Journal of Toxicology*, *36*(3_suppl), 5S-30S. https://doi.org/10.1177/1091581817728996

Karavas, E., Georgarakis, E., & Bikiaris, D. (2006). Application of PVP/HPMC miscible blends with enhanced mucoadhesive properties for adjusting drug release in predictable pulsatile chronotherapeutics. *European Journal of Pharmaceutics and Biopharmaceutics*, *64*(1), 115–126. https://doi.org/10.1016/j.ejpb.2005.12.013

Kathe, K., & Kathpalia, H. (2017). Film forming systems for topical and transdermal drug delivery. *Asian Journal of Pharmaceutical Sciences*, *12*(6), 487–497. https://doi.org/10.1016/j.ajps.2017.07.004

Katiki, L. M., Gomes, A. C. P., Barbieri, A. M. E., Pacheco, P. A., Rodrigues, L., Veríssimo, C. J., Gutmanis, G., Piza, A. M., Louvandini, H., & Ferreira, J. F. S. (2017). *Terminalia catappa: Chemical composition, in vitro and in vivo effects on Haemonchus contortus*. https://doi.org/10.1016/j.vetpar.2017.09.006

Kemenkes RI. (2017). *Farmakope Herbal Indonesia Edisi II*. Kementrian Kesehatan RI.

Kharisma, A., Tjahjaningsih, W., & Sigit, S. (2020). Determination of minimum inhibitory and minimum bactericidal concentration of ketapang (Terminatia catappa) leaves extract against Vibrio harveyi. *IOP Conference Series: Earth and Environmental Science*, *441*(1). https://doi.org/10.1088/1755-1315/441/1/012012

Koeth, L. M., King, A., Knight, H., May, J., Miller, L. A., Phillips, I., & Poupard, J. A. (2000). Comparison of cation-adjusted Mueller-Hinton with Iso-Sensitest broth for the NCCLS broth microdilution method. *Journal of Antimicrobial Chemotherapy*, *46*(3), 369–376. https://doi.org/10.1093/jac/46.3.369

Kuo, C. W., Chiu, Y. F., Wu, M. H., Li, M. H., Wu, C. N., Chen, W. S., & Huang, C. H. (2021). Gelatin/chitosan bilayer patches loaded with cortex phellodendron amurense/centella asiatica extracts for anti-acne application. *Polymers*, *13*(4), 1–15. https://doi.org/10.3390/polym13040579

Kurnia, D., Akbar, H. A., & Suhardiman, A. (2022). Aktivitas Antibakteri Ekstrak Dan Fraksi Makroalga Eucheuma cottonii Terdelignifikasi Terhadap Bakteri

Penyebab Jerawat. *Indonesia Natural Research Pharmaceutical Journal*, *7*(2), 77–90. https://doi.org/10.52447/inrpj.v7i2.6476

Kurniawati, E. (2015). Daya Antibakteri Ekstrak Etanol Tunas Bambu Apus Terhadap Bakteri Escherichia coli dan Staphylococcus aureus Secara In Vitro. *Jurnal Wiyata*, *2*(2), 193–199.

Leung, A. K. C., Barankin, B., Lam, J. M., Leong, K. F., & Hon, K. L. (2021). Dermatology: how to manage acne vulgaris. *Drugs in Context*, *10*. https://doi.org/10.7573/DIC.2021-8-6

Lopes, P. P., Tanabe, E. H., & Bertuol, D. A. (2020). Chitosan as biomaterial in drug delivery and tissue engineering. In *Handbook of Chitin and Chitosan: Volume 3: Chitin- and Chitosan-based Polymer Materials for Various Applications* (pp. 407–431). https://doi.org/10.1016/B978-0-12-817966-6.00013-3

Lucut, S., & Smith, M. R. (2016). Dermatological tracking of chronic acne treatment effectiveness. *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS*, *2016-Octob*, 5421–5426. https://doi.org/10.1109/EMBC.2016.7591953

Maddeppungeng, N. M., Tahir, K. A., Nurdin, N. C., & Wahyuni, S. (2023). Formulasi dan Evaluasi Dermal Patch Ekstrak Metanol Rimpang Lempuyang Gajah (Zingibe zerumbet L.) Sebagai Antibakteri Terhadap Bakteri Staphylococcus aureus Secara In Vitro dan In Vivo. *Jurnal Mandala Pharmacon Indonesia*, *9*(2), 621–631. https://doi.org/10.35311/jmpi.v9i2.425

Maharadingga, M., Pahriyani, A., & Arista, D. (2021). Uji Aktivitas Ekstrak Etanol 70% Daun Ketapang (Terminalia catappa L.) Pada Hamster Syrian Jantan Hiperglikemia Dan Hiperkolesterolemia Dengan Parameter Pengukuran Kolesterol Total Dan LDL. *Lumbung Farmasi: Jurnal Ilmu Kefarmasian*, *2*(2), 80. https://doi.org/10.31764/lf.v2i2.5488

Mandal, A., Clegg, J. R., Anselmo, A. C., & Mitragotri, S. (2020). Hydrogels in the clinic. *Bioengineering & Translational Medicine*, *5*(2). https://doi.org/10.1002/BTM2.10158

Mazzeo, L., Bianchi, M., Cocchi, M., & Piemonte, V. (2018). Drug delivery with membranes systems. In *Current Trends and Future Developments on (Bio-) Membranes: Membrane Processes in the Pharmaceutical and Biotechnological Field*. Elsevier Inc. https://doi.org/10.1016/B978-0-12-813606-5.00010-5

Medscape. (2024). *Cleocin T, Clindagel (clindamycin topical) dosing, indications, interactions, adverse effects, and more*. https://reference.medscape.com/drug/cleocin-t-clindagel-clindamycin-topical-343467

Miksusanti, Herlina, Fithri, A. N., & Ferlinahayati. (2019). Properties of Ethanolysis Product from Ketapang Seed Oil (Terminalia Catappa Linn) Incorporated in Mucoadhesive Patch Film. *IOP Conference Series: Earth and Environmental Science*, *347*(1). https://doi.org/10.1088/1755-1315/347/1/012034

Nada, F. arah A. Q., Rahayu, T., & Hayati, A. (2021). Analisis Skrining Fitokimia dan Aktivitas Antioksidan Ekstrak Biji Sangrai Kopi Robusta (Coffea

canephora) dari Tanaman Hasil Pemupukan Organik dan Anorganik. *Jurnal Ilmiah SAINS ALAMI (Known Nature)*, *3*(2), 31–39.

Najib, A., Malik, A., Ahmad, A. R., Handayani, V., Syarif, R. A., & Waris, R. (2018). Standardisasi Ekstrak Air Daun Jati Belanda dan Daun Jati Hijau. *Jurnal Fitofarmaka Indonesia*, *4*(2), 241–245.

Narayanaswamy, R., & Torchilin, V. P. (2019). Hydrogels and their applications in targeted drug delivery. *Molecules*, *24*(3). https://doi.org/10.3390/MOLECULES24030603

Nast, A., Dréno, B., Bettoli, V., Bukvic Mokos, Z., Degitz, K., Dressler, C., Finlay, A. Y., Haedersdal, M., Lambert, J., Layton, A., Lomholt, H. B., López-Estebaranz, J. L., Ochsendorf, F., Oprica, C., Rosumeck, S., Simonart, T., Werner, R. N., & Gollnick, H. (2016a). European evidence-based (S3) guideline for the treatment of acne – update 2016 – short version. *Journal of the European Academy of Dermatology and Venereology*, *30*(8), 1261–1268. https://doi.org/10.1111/jdv.13776

Nast, A., Dréno, B., Bettoli, V., Bukvic Mokos, Z., Degitz, K., Dressler, C., Finlay, A. Y., Haedersdal, M., Lambert, J., Layton, A., Lomholt, H. B., López-Estebaranz, J. L., Ochsendorf, F., Oprica, C., Rosumeck, S., Simonart, T., Werner, R. N., & Gollnick, H. (2016b). *European Evidence-based (S3) Guideline for the Treatment of Acne Update 2016 Long version*. European Dermatology Forum. https://www.guidelines.edf.one//uploads/attachments/cl262t0fy006olajnx74ske02-acne-2016-gl.pdf

National Center for Biotechnology Information. (2024a). *Flavone | C15H10O2 | CID 10680 - PubChem*. PubChem. https://pubchem.ncbi.nlm.nih.gov/compound/Flavone

National Center for Biotechnology Information. (2024b). *Flavonol(1-) | C15H9O3- | CID 25201487 - PubChem*. PubChem. https://pubchem.ncbi.nlm.nih.gov/compound/Flavonol_1

National Center for Biotechnology Information. (2024c). *Phenol | C6H5OH | CID 996 - PubChem*. PubChem. https://pubchem.ncbi.nlm.nih.gov/compound/Phenol

National Center for Biotechnology Information. (2024d). *Triterpenoids | C29H44O5 | CID 78126908 - PubChem*. PubChem. https://pubchem.ncbi.nlm.nih.gov/compound/Triterpenoids

Nomer, N. M. G. R., Duniaji, A. S., & Nocianitri, K. A. (2019). Kandungan Senyawa Flavonoid Dan Antosianin Ekstrak Kayu Secang (Caesalpinia sappan L.) Serta Aktivitas Antibakteri Terhadap Vibrio cholerae. *Jurnal Ilmu Dan Teknologi Pangan (ITEPA)*, *8*(2), 216. https://doi.org/10.24843/itepa.2019.v08.i02.p12

Novitri, S. A., & Kurniati, N. F. (2018). Jurnal Kesehatan Medika Saintika. *Jurnal Kesehatan Medika Saintika Volume*, *10*(2), 11–24.

NParks. (2023). *NParks | Terminalia catappa L.* https://www.nparks.gov.sg/florafaunaweb/flora/3/1/3181

Nugroho, R. A., Utami, D., Aryani, R., Nur, F. M., Sari, Y. P., & Manurung, H. (2019). In vivo wound healing activity of ethanolic extract of Terminalia

catappa L. leaves in mice (Mus musculus) . *Journal of Physics: Conference Series*, *1277*(1), 1–6. https://doi.org/10.1088/1742-6596/1277/1/012031

Nurhamidah, R., & Nurrochman, A. (2022). Karakterisasi Polimer Alami Sebagai Perekat Sediaan Transdermal Patch dengan Metode Pencampuran. *Jurnal Riset Farmasi*, 125–132. https://doi.org/10.29313/jrf.v2i2.1449

Oktaviana, M., & Yenny, S. W. (2019). Perkembangan Penggunaan Kosmeseutikal Herbal Pada Terapi Melasma. *Jurnal Kesehatan Andalas*, *8*(3), 717. https://doi.org/10.25077/JKA.V8I3.1061

Oliveira, R., Ferreira, J., Azevedo, L. F., & Almeida, I. F. (2023). An Overview of Methods to Characterize Skin Type: Focus on Visual Rating Scales and Self-Report Instruments. *Cosmetics 2023, Vol. 10, Page 14*, *10*(1), 14. https://doi.org/10.3390/COSMETICS10010014

Ozsoy, Y. (2012). *Plasticizers in Transdermal Drug Delivery Systems*. *March*.

Pamudi, B. F., Munira, M., Saha, R. A., & Nasir, M. (2021). Pengaruh lama maserasi daun ketapang merah (Terminalia Catappa L.) terhadap daya hambat Staphylococcus aureus dan Escherichia coli. *Jurnal SAGO Gizi Dan Kesehatan*, *2*(2), 158. https://doi.org/10.30867/gikes.v2i2.664

Prapapan, O., Chatchavarn, C. C., Suvanprakorn, P., Neumann, H. A. M., Knobler, R., Prombandankul, A., & Siriapaipun, K. (2020). Proposal for a 4-type Classification of Acne: An Evidence-Based Review of the Literature. *The Open Dermatology Journal*, *14*(1), 38–43. https://doi.org/10.2174/1874372202014010038

Pratiwi, G., Susanti, S., & Shiyan, S. (2020). Application of Factorial Design for Optimization of PVC-HPMC Polymers in Matrix Film Ibuprofen Patch-Transdermal Drug Delivery System. *Indonesian Journal of Chemometrics and Pharmaceutical Analysis*, *1*(1), 11. https://doi.org/10.22146/ijcpa.486

Priyanka, Kumar, K., & Teotia, D. (2019). A Comprehensive Review on Pharmaceutical Oral Dissolving Films. *Journal of Drug Delivery and Therapeutics*, *9*(5-s), 170–174. https://doi.org/10.22270/JDDT.V9I5-S.3641

Purwaningsih, N. S., Utami, sheila meitania, & Apriandini, W. (2020). Uji Efektivitas Antibakteri Dari Ekstrak Daun Kipait (Tithonia diversifolia (Hemsl.) A. Gray) Terhadap Bakteri Propionibacterium Acnes. *Edu Masda Journal*, *4*(1), 76–88.

Putri, D. A., Rejeki, E. S., & Aisiyah, S. (2023). Uji Formulasi Sediaan Krim Antioksidan Ekstrak Metanol Kulit Buah Pisang Raja (Musa paradisiaca L.). *EduNaturalia*, *4*(1), 41–51.

Qothrunnadaa, T., & Hasanah, A. N. (2021). Patches for Acne Treatment: an Update on the Formulation and Stability Test. *International Journal of Applied Pharmaceutics*, *13*(Special Issue 4), 21–26. https://doi.org/10.22159/IJAP.2021.V13S4.43812

Rahmawati, N., Sudjarwo, E., & Widodo, E. (2014). Uji Aktivitas Antibakteri Ekstrak Herbal Terhadap Bakteri Escherichia coli. *Jurnal Ilmu-Ilmu Peternakan*, *24*(3), 24–31. http://jiip.ub.ac.id/

Roberts, W. (2021). Air Pollution and Skin Disorders. *International Journal of Women's Dermatology*, *7*(1), 91–97. https://doi.org/10.1016/j.ijwd.2020.11.001

Rori, B. N. D., Khoman, J. A., & Supit, A. S. R. (2018). Uji Konsentrasi Hambat Minimum Ekstrak Daun Gedi (Abelmoschus manihot L. Medik) terhadap Pertumbuhan Streptococcus mutans. *E-GIGI*, *6*(2). https://doi.org/10.35790/eg.6.2.2018.20200

Sa`adah, H., Supomo, S., & Musaenah, M. (2020). Aktivitas Antibakteri Ekstrak Air Kulit Bawang Merah (Allium cepa L.) Terhadap Bakteri Propionibacterium acnes. *Jurnal Riset Kefarmasian Indonesia*, *2*(2), 80–88. https://doi.org/10.33759/jrki.v2i2.73

Sakul, G., Simbala, H., & Rundengan, G. (2020). Uji Daya Hambat Ekstrak Etanol Daun Pangi (Pangium edule Reinw. Ex Blume) Terhadap Bakteri Staphylococcus aureus, Escherichia coli DAN Pseudomonas aeruginosa. *PHARMACON*, *9*(2), 275–283.

Septiani, V., Choirunnisa, A., & Syam, A. K. (2017). Uji Aktivitas Antimikroba Ekstrak Etanol Daun Karuk (Piper sarmentosum Roxb.) terhadap Streptococcus mutans dan Candida albicans. *Kartika Jurnal Ilmiah Farmasi*, *5*(1), 7–14. https://doi.org/10.26874/kjif.v5i1.87

Setyawan, E. I., Warditiani, N. K., & Dewi, S. M. (2015). Pengaruh Penggunaan Propilenglikol dan Mentol Terhadap Matrik Patch Transdermal Ekstrak Air Herba Sambiloto (Andrographis Paniculata (Burm. F.) Nees). *Jurnal Farmasi Udayana*, *4*(2), 60–65.

Silva, L. P., De Angelis, C. D., Bonamin, F., Kushima, H., José Mininel, F., Dos Santos, L. C., Delella, F. K., Felisbino, S. L., Vilegas, W., MacHado Da Rocha, L. R., Dos Santos Ramos, M. A., Bauab, T. M., Toma, W., & Hiruma-Lima, C. A. (2015). Terminalia catappa L.: A medicinal plant from the Caribbean pharmacopeia with anti-Helicobacter pylori and antiulcer action in experimental rodent models. *Journal of Ethnopharmacology*, *159*, 285–295. https://doi.org/10.1016/j.jep.2014.11.025

Sinaga, C. R., Kreckhoff, R. L., Salindeho, I. R. N., Ngangi, E. L. A., Mudeng, J. D., & Rompas, R. M. (2022). Uji efektivitas senyawa antibakteri penyebab ice-ice dari daun ketapang Terminalia catappa L dengan metode ekstraksi berbeda. *Budidaya Perairan*, *10*(1), 59–65.

Sowmiya, M., Malathi, J., Swarnali, S., Priya, J. P., Therese, K. L., & Madhavan, H. N. (2015). A study on the characterization of Propionibacterium acnes isolated from ocular clinical specimens. *The Indian Journal of Medical Research*, *142*(4), 438. https://doi.org/10.4103/0971-5916.169209

Supriningrum, R., Sundu, R., Sentat, T., Niah, R., & Kumalasari, E. (2021). KARAKTERISASI SIMPLISIA DAN EKSTRAK KULIT BATANG SEKILANG (Embelia borneensis Scheff.). *Jurnal Ilmiah Ibnu Sina (JIIS): Ilmu Farmasi Dan Kesehatan*, *6*(2), 196–205. https://doi.org/10.36387/jiis.v6i2.677

Tenover, F. C. (2019). Antimicrobial susceptibility testing. *Encyclopedia of Microbiology*, 166–175. https://doi.org/10.1016/B978-0-12-801238-3.02486-7

Terças, A. G., Monteiro, A. de S., Moffa, E. B., dos Santos, J. R. A., de Sousa, E. M., Pinto, A. R. B., Costa, P. C. da S., Borges, A. C. R., Torres, L. M. B., Barros Filho, A. K. D., Fernandes, E. S., & Monteiro, C. de A. (2017).

Phytochemical characterization of Terminalia catappa Linn. extracts and their antifungal activities against Candida spp. *Frontiers in Microbiology*, *8*(APR), 1–13. https://doi.org/10.3389/fmicb.2017.00595

Tiwari, S., Nizet, O., & Dillon, N. (2023). Development of a high-throughput minimum inhibitory concentration (HT-MIC) testing workflow. *Frontiers in Microbiology*, *14*. https://doi.org/10.3389/fmicb.2023.1079033

Utami, Y. P. (2020). Pengukuran Parameter Simplisia Dan Ekstrak Etanol Daun Patikala (Etlingera Elatior (Jack) R.M. Sm) Asal Kabupaten Enrekang Sulawesi Selatan. *Majalah Farmasi Dan Farmakologi*, *24*(1), 6–10. https://doi.org/10.20956/mff.v24i1.9831

Wardani, V. K., & Saryanti, D. (2021). Formulasi Transdermal Patch Ekstrak Etanol Biji Pepaya (Carica papaya L.) dengan Basis Hydroxypropil Metilcellulose (HPMC). *Smart Medical Journal*, *4*(1), 38. https://doi.org/10.13057/smj.v4i1.43613

Warnis, M., Rulianti, M. R., & Salsabila, J. (2021). Pemeriksaan Rendemen, Kadar Sari Larut Air, Dan Kadar Sari Larut Etanol Dari Ekstrak Batang Brotowali. *JKPharm Jurnal Kesehatan Farmasi*, *3*(2), 118–123. https://doi.org/10.36086/jkpharm.v3i2.1086

WHO. (2017). *Air pollution*. https://www.who.int/health-topics/air-pollution#tab=tab_1

Winastri, N. L. A. P., Muliasari, H., & Hidayati, E. (2020). Aktivitas Antibakteri Air Perasan Dan Rebusan Daun Calincing (Oxalis corniculata L.) Terhadap Streptococcus mutans. *Berita Biologi*, *19*(1), 223–230. https://biologyjournal.brin.go.id/index.php/berita_biologi/article/view/3786

Yousef, H., Alhajj, M., & Sharma, S. (2022). *Anatomy, Skin (Integument), Epidermis*. StatPearls Publishing.

Yulianti, T., Puspitasari, D., & Wahyudi, D. (2021). Optimasi Formula Patch Dan Uji Aktivitas Antibakteri Ekstrak Etanol Biji Pepaya (Carica papaya L.) Dengan Kombinasi Matriks HPMC Dan PEG 400 Terhadap Staphylococcus aureus. *Jurnal Insan Farmasi Indonesia*, *4*(2), 256–264. https://doi.org/10.36387/jifi.v4i2.756

Zaenglein, A. L., Pathy, A. L., Schlosser, B. J., Alikhan, A., Baldwin, H. E., Berson, D. S., Bowe, W. P., Graber, E. M., Harper, J. C., Kang, S., Keri, J. E., Leyden, J. J., Reynolds, R. V., Silverberg, N. B., Stein Gold, L. F., Tollefson, M. M., Weiss, J. S., Dolan, N. C., Sagan, A. A., … Bhushan, R. (2016). Guidelines of care for the management of acne vulgaris. *Journal of the American Academy of Dermatology*, *74*(5), 945-973.e33. https://doi.org/10.1016/J.JAAD.2015.12.037

Zhang, Y., Feng, P., Yu, J., Yang, J., Zhao, J., Wang, J., Shen, Q., & Gu, Z. (2018). ROS-Responsive Microneedle Patch for Acne Vulgaris Treatment. *Advanced Therapeutics*, *1*(3), 1800035. https://doi.org/10.1002/ADTP.201800035