

DAFTAR PUSTAKA

- Adzhani, A., Darusman, F., & Aryani, R. (2022). Kajian Efek Radiasi Ultraviolet terhadap Kulit. *Bandung Conference Series: Pharmacy*, 2(2), 106–112. <https://doi.org/10.29313/bcsp.v2i2.3551>
- Amelia, N. A., & Noval. (2021). The Effect of Variations in Carbopol 940 Concentration on the Stability of the Formulation of Spray Gel Nanoparticles of Bundung Plant Extract (*Actinoscirpus grossus*). *International Conference on Health Science*, 1(10), 573–584. <https://ocs.unism.ac.id/index.php/ICoHS/article/view/500>
- Aromatics., N. D. (n.d.). *Tamanu Carrier Oil – Virgin (Vietnam)*. Diambil 4 Januari 2025, dari https://www.newdirectionsaromatics.com/oils/carrier-oils/tamanu-carrier-oil-virgin-vietnam?utm_source=chatgpt.com
- Astuti, V., Astuti, R. D., & Ayu, C. (2019). Formulasi dan Evaluasi Emulsi Kombinasi Ekstrak Tomat (*Lycopersicum esculentum*) dan Minyak Zaitun Emulgator. *Jurnal Kesehatan Pharmasi*, 2(1), 75–82.
- Aziza, F. N., Sulaiman, T. N. S., Primasari, F. S., Syazwina, Z., & Suwardjo, W. P. (2025). Optimization of HPMC and Carbopol 940 as Gelling Agents on The Physical Properties and Stability in Anti-Acne Gel of Binahong Leaves (*Anredera cordifolia* (Ten.) Steenis Extract. *Indonesian Journal of Pharmacy*, 36(3), 479–488. <https://doi.org/10.22146/ijp.11078>
- Chandra, D., & Rahmah. (2022). Uji Fisikokimia Sediaan Emulsi, Gel, Emulgel Ekstrak Etanol Goji Berry (*Lycium barbarum* L.). *MEDFARM: Jurnal Farmasi dan Kesehatan*, 11(2), 219–228.
- Chavda, V. P., Acharya, D., Hala, V., Daware, S., & Vora, L. K. (2023). Sunscreens: A comprehensive review with the application of nanotechnology. *Journal of Drug Delivery Science and Technology*, 86(June), 104720. <https://doi.org/10.1016/j.jddst.2023.104720>
- Dambur, A. M. R., Malluka, R., Anton, N., & Kursia, S. (2019). Formulasi Dan Pengujian Stabilitas Fisik Gel Antijerawat Liofilisat Limbah Kokon Asal Kabupaten Soppeng. *Jurnal Farmasi Medica/Pharmacy Medical Journal (PMJ)*, 2(2), 70. <https://doi.org/10.35799/pmj.2.2.2019.26529>
- 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), 1–28. <https://doi.org/10.3390/pharmaceutics15010164>

- Ergashev, S. U. (2021). Important Properties of Carbomer. *International Journal on Human Computing Studies*, 3(7), 34–35. <https://doi.org/10.1017/cbo9780511614439.011>
- Fernandes, C. D. P., Santana, L. F., Santos, J. R. D., Fernandes, D. S., Hiane, P. A., Pott, A., Freitas, K. D. C., Bogo, D., N, V. A. D., Filiu, W. F. D. O., Asato, M. A., & Guimarães, R. D. C. A. (2023). Metabolic alterations. *Resistant Hypertension: Epidemiology, Pathophysiology, Diagnosis and Treatment*, 28, 1–17. https://doi.org/10.1007/978-88-470-5415-8_3
- Firdaus, M. M., Sudarti, & Yushardi. (2024). Analisis Pencegahan Paparan Radiasi Sinar Ultraviolet oleh Matahari Menggunakan Sunscreen untuk Skin Barrier. *Jurnal Pendidikan Tambusa*, 8(2), 23321–23329.
- Garavaglia, J., Markoski, M. M., Oliveira, A., & Marcadenti, A. (2016). Grape seed oil compounds: Biological and chemical actions for health. *Nutrition and Metabolic Insights*, 9, 59–64. <https://doi.org/10.4137/NMIS32910>
- Ginigini, J., Lecellier, G. J., Nicolas, M., Nour, M., Hnawia, E., Lebouvier, N., Herbet, G., Lockhart, P., & Raharivelomanana, P. (2019). Chemodiversity of *Calophyllum inophyllum* L. oil bioactive components related to their specific geographical distribution in the South Pacific region. *PeerJ*, 2019(5). <https://doi.org/10.7717/peerj.6896>
- Guan, L. L., Lim, H. W., & Mohammad, T. F. (2021). Sunscreens and Photoaging: A Review of Current Literature. *American Journal of Clinical Dermatology*, 22(6), 819–828. <https://doi.org/10.1007/s40257-021-00632-5>
- Guo, H., Ge, J., Wu, Q., He, Z., Wang, W., & Cao, G. (2022). Syneresis Behavior of Polymer Gels Aged in Different Brines from Gelants. *Gels*, 8(3). <https://doi.org/10.3390/gels8030166>
- Handayani, I. A., Purba, A. V., & Rahmat, D. (2020). Nilai Antioksidan dan SPF dari Kombinasi Minyak Biji Nyamplung (*Calophyllum inophyllum* L) dan Minyak Kelapa Sawit (*Elaeis guineensis*). *Majalah Farmaseutik*, 16(2), 176. <https://doi.org/10.22146/farmaseutik.v16i2.52244>
- Hidayah, R., & Hanifa, L. (2023). Formulasi, Evaluasi Stabilitas Fisik dan Uji Aktivitas Antibakteri Serum Wajah Yang Mengandung Minyak Biji Anggur (Grape Seed Oil). *Journal of Islamic Pharmacy*, 8(1), 34–38. <https://doi.org/10.18860/jip.v8i1.18713>
- Hikmah, F. N., Malahayati, S., & Nugraha, D. F. (2023). Formulasi Dan Evaluasi Sediaan Serum Gel Ekstrak Bunga Melati (*Jasminum sambac* L.). *Journal Pharmaceutical Care and Sciences*, 3(2), 93–108.

<https://doi.org/10.33859/jpcs.v3i2.248>

- Hübner, A. A., Sarruf, F. D., Oliveira, C. A., Neto, A. V., Fischer, D. C. H., Kato, E. T. M., Lourenço, F. R., Baby, A. R., & Bacchi, E. M. (2020). Safety and photoprotective efficacy of a sunscreen system based on grape pomace (*Vitis vinifera* l.) phenolics from winemaking. *Pharmaceutics*, *12*(12), 1–22. <https://doi.org/10.3390/pharmaceutics12121148>
- Idrus, I., Apriyanti, R., Katadi, S., Rahmat, N., Wahab, S., & Asfi, D. (2023). Pengaruh Variasi Basis HPMC dan Karbopol Terhadap Stabilitas Fisik Formulasi Gel Buah Okra (*Abelmoschus esculentus* L.). *BIOCITY Journal of Pharmacy Bioscience and Clinical Community*, *2*(1), 35–48.
- Ikhtiyarini, T. A., & Sari, A. K. (2022). Efektivitas Penggunaan Basis Gel pada Sediaan Emulgel. *Journal Clinical, Pharmaceutical, Analytical, and Pharmacy Community*, *1*(1), 19–25.
- Irianto, I. D. K., Purwanto, & 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. <https://doi.org/10.22146/farmaseutik.v16i2.53793>
- Kartika, I. A., Fataya, I., Yunus, M., & Yuliana, N. D. (2022). Optimasi proses ekstraksi minyak dan resin nyamplung dengan pelarut biner menggunakan response surface method optimization of calophyllum oil and resin extraction process with binary solvent using response surface method. *Jurnal Teknologi Industri Pertanian*, *32*(1), 21–31.
- Kashif, M., & Akhtar, N. (2018). Determination of sun protection factor and physical remanence of dermocosmetic emulgels formulated with Manilkara zapota (L.) fruit extract. *Tropical Journal of Pharmaceutical Research*, *18*(4), 806–816. <https://doi.org/10.4314/tjpr.v18i4.18>
- Khafi, M., Hertiani, T., Murwanti, R., Bayu Irawan, M., Marzuki, A., & Dwi Salim, R. (2025). Formulation and Stability Test of HPMC and Carbomer 940 based-Gel Formulation Containing Plantago major L. hydroalcoholic extract. *Majalah Farmaseutik*, *21*(2), 198. <https://doi.org/10.22146/farmaseutik.v21i2.95893>
- Khery, Y., Sarjan, M., Nufida, B. A., & Efendi, I. (2022). Etnosains tanaman nyamplung (*Calophyllum inophyllum* L.) dalam tradisi masyarakat sasak. *Jurnal Kajian Biologi*, *2*(4), 179–192.
- Ku, W. J., Lin, C. J., & Lin, P. H. (2021). UV-Protection Performance of Calophyllum inophyllum Seed Extracts: A Natural Ultraviolet Screening Agent. *Natural Product Communications*, *16*(1).

<https://doi.org/10.1177/1934578X20985650>

- Kusumawati, A. H., Ameliana, L., Wicaksono, Y., & Ulfa, E. U. (2018). Uji Aktivitas Antijerawat dan Karakteristik Fisik Emulgel Minyak Atsiri Daun Jeruk Purut (*Citrus hystrix* DC.) dengan Basis Gel HPMC Terhadap *Propionibacterium acne*. *Pharma Xplore: Jurnal Ilmiah Farmasi*, 3(1). <https://doi.org/10.36805/farmasi.v3i1.971>
- Latifah, N., Ahdyani, R., & Hafifah, R. (2025). Pengaruh Variasi Konsentrasi Karbopol dan Hydroxy Propyl Metyl Cellulose (HPMC) Terhadap Mutu Fisik Basis Sediaan Hydrogel. 16(2), 84–93.
- Li, L., Chong, L., Huang, T., Ma, Y., Li, Y., & Ding, H. (2022). Natural products and extracts from plants as natural UV filters for sunscreens: A review. *Animal Models and Experimental Medicine*, 6(3), 183–195. <https://doi.org/10.1002/ame2.12295>
- Lukić, M., Pantelić, I., & Savić, S. D. (2021). Towards optimal ph of the skin and topical formulations: From the current state of the art to tailored products. *Cosmetics*, 8(3). <https://doi.org/10.3390/cosmetics8030069>
- Mayangsari, E., Mustika, A., Nurdiana, N., & Samad, N. A. (2024). Comparison of UVA vs UVB Photoaging Rat Models in Short-term Exposure. *Medical Archives*, 78(2), 88–91. <https://doi.org/10.5455/medarh.2024.78.88-91>
- Milutinov, J., Krstonošić, V., Ćirin, D., & Pavlović, N. (2023). Emulgels: Promising Carrier Systems for Food Ingredients and Drugs. *Polymers*, 15(10). <https://doi.org/10.3390/polym15102302>
- Milutinov, J., Pavlović, N., Ćirin, D., Atanacković Krstonošić, M., & Krstonošić, V. (2024). The Potential of Natural Compounds in UV Protection Products. *Molecules*, 29(22). <https://doi.org/10.3390/molecules29225409>
- Mwangi, A. N., Njogu, P. M., Maru, S. M., Njuguna, N. M., Njaria, P. M., Kiriiri, G. K., & Mathenge, A. W. (2021). Meloxicam emulgels for topical management of rheumatism: Formulation development, in vitro and in vivo characterization. *Saudi Pharmaceutical Journal*, 29(4), 351–360. <https://doi.org/10.1016/j.jsps.2021.03.005>
- Nafiah, S. R., Rizal, Y., Riska Nafiah, S., Primawati, I., & Ayu Hamama, D. (2024). Pengaruh Paparan Sinar Ultraviolet terhadap Kesehatan Kulit dan Upaya Pencegahannya: Tinjauan Literatur. *Scientific Journal*, 3(3), 185–194. <https://doi.org/10.56260/sciena.v3i3.147>
- Niah, R., Ariani, N., & Rizki Febrianti, D. (2021). Formulasi dan Uji Evaluasi Fisik

- Sediaan Gel Handsanitizer Ekstrak Etanol 96% Daun Cocor Bebek (*Kalanchoe blossfeldiana* Poelln.). *Jurnal Insan Farmasi Indonesia*, 4(1), 129–138.
<https://doi.org/10.36387/jifi.v4i1.702>
- Nofriyanti, Sinata, N., & Mistawati, A. (2020). Formulasi Dan Uji Aktivitas Emulgel Minyak Ikan Gabus (*Channa striata*) Sebagai Penyembuh Luka Bakar. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 6(2), 253–268.
<https://doi.org/10.22487/j24428744.2020.v6.i2.15013>
- Nopiyanti, V., Wulandari, L., & Suhartinah. (2021). Formulasi dan Uji Aktivitas Perlindungan Tabir Surya Emulgel Ekstrak Etanol Kulit Bawang Merah (*Allium cepa* L.) secara In Vitro dan In Vivo. *CERATA Jurnal Ilmu Farmasi*, 12(1), 1–9.
<https://doi.org/10.61902/cerata.v12i1.150>
- Nurdianti, L., Rosiana, D., & Aji, N. (2018). Evaluasi Sediaan Emulgel Anti Jerawat Tea Tree (*Melaleuca alternifolia*) Oil dengan Menggunakan HPMC sebagai Gelling Agent. *Journal of Pharmacopolium*, 1(1), 23–31.
<https://doi.org/10.36465/jop.v1i1.392>
- Ogi, T., Kawano, Y., Usami, T., Hermawan, I., Yokaryo, H., Yamamoto, S., & Saiki, P. (2025). Anti-inflammatory and UV-protective activities of isolated compounds from *Calophyllum inophyllum* L. in immune and skin cell models. *Journal of Natural Medicines*, 0123456789. <https://doi.org/10.1007/s11418-025-01963-x>
- Oktaviani, D. J., Susilawati, Y., Tjitraresmi, A., & Zuhrotun, A. (2024). Article Review Potential of Natural Based-Skincare Cosmetic Ingredients for Naturally Glowing Skin. *Borneo Journal of Pharmacy*, 6(4), 417–436.
<https://doi.org/10.33084/bjop.v6i4.5013>
- Phad, A. R., Dilip, N. T., & Ganapathy, R. S. (2018). Emulgel: A comprehensive review for topical delivery of hydrophobic drugs. *Asian Journal of Pharmaceutics*, 12(2), S382–S393.
- Prasada N, S., & Mutta, S. K. (2021). A Review on Emulgel. *Asian Journal of Pharmaceutical Research and Development*, 9(4), 147–150.
<https://doi.org/10.22270/ajprd.v9i4.1007>
- Rachmawati, P., Sagala, R. J., & Kambira, P. F. A. (2021). Tinjauan Pustaka Bentuk Sediaan Tabir Surya Bahan Alam, Keamanan dan Efektivitas Tabir Surya. *Jurnal Farmasi Indonesia*, 13, 25–39.
- Rahayu, T., Fudholi, A., & Fitria, A. (2016). Optimasi Formulasi Gel Ekstrak Daun Tembakau (*Nicotiana Tabacum*) Dengan Variasi Kadar Karbopol940 Dan Tea Menggunakan Metode Simplex Lattice Design (SlD). *Jurnal Ilmiah Farmasi*,

12(1), 22–34. <https://doi.org/10.20885/jif.vol12.iss1.art3>

- Rakhmawati, R., Artanti, A. N., & Afifah, N. (2019). Pengaruh Variasi Konsentrasi Tamanu Oil terhadap Uji Stabilitas Fisik Sediaan Body Lotion. *Annual Pharmacy Conference*, 4(1), 53–65.
- Sah, S. K., Badola, A., & Nayak, B. K. (2017). Emulgel: Magnifying the application of topical drug delivery. *Indian Journal of Pharmaceutical and Biological Research*, 5(01), 25–33. <https://doi.org/10.30750/ijpbr.5.1.4>
- Salminen, A., Kaarniranta, K., & Kauppinen, A. (2022). Photoaging: UV radiation-induced inflammation and immunosuppression accelerate the aging process in the skin. *Inflammation Research*, 71(7–8), 817–831. <https://doi.org/10.1007/s00011-022-01598-8>
- Samuelsen, L., Holm, R., Lathuile, A., & Schönbeck, C. (2019). Buffer solutions in drug formulation and processing: How pK a values depend on temperature, pressure and ionic strength. *International Journal of Pharmaceutics*, 560, 357–364. <https://doi.org/10.1016/j.ijpharm.2019.02.019>
- Sander, M., Sander, M., Burbidge, T., & Beecker, J. (2020). The efficacy and safety of sunscreen use for the prevention of skin cancer. *Cmaj*, 192(50), E1802–E1808. <https://doi.org/10.1503/cmaj.201085>
- Saputra, I. N., Saptarini, O., & Kurniasari, F. (2023). Formulasi dan Uji Aktivitas Antibakteri Sediaan Serum Gel Antijerawat Ekstrak Etanol Daun Kemangi (*Ocimum basilicum* L.) Terhadap Bakteri *Staphylococcus aureus* ATCC 25923 dengan Variasi Konsentrasi Hydroxyethyl Cellulose (HEC). *Jurnal Kefarmasian Akfarindo*, 1(2), 91–97. <https://doi.org/10.37089/jofar.v8i2.206>
- Saraung, V., Yamlean, V. P., & Citraningtyas, G. (2018). Pengaruh variasi basis karbopol dan HPMC pada formulasi gel ekstrak etanol daun tapak kuda (*Ipomoea pes-caprae* (L.) R. Br. dan uji aktivitas antibakteri terhadap *Staphylococcus aureus*. *Pharmacon*, 7(3), 220–229.
- Sari, A. K., Aliyyah, Z. N., & Syamsiah, D. F. N. (2022). formulasi dan evaluasi fisik sediaan emulgel ekstrak rumput laut coklat (*Sargassum* Sp). In *Jurnal Kesehatan* (Vol. 4, Nomor 2).
- Seliem, A. O., Abd, A., Mahmoud, E., & Ezzat, K. M. (2024). An Overview on Histology of the skin. *International Journal of Multiphysics*, 18(3), 2932–2938.
- Setiani, R., Ratnasari, L., & Septian, R. T. (2024). Formulasi Sediaan Face Mist dari Ekstrak Etanol Kayu Secang (*Caesalpinia sappan* L.) dengan Variasi Gliserin sebagai Humektan. *Jurnal Sabdariffarma*, 12(1), 14–31.

<https://doi.org/10.53675/jsfar.v12i1.1318>

- Sharafan, M., Malinowska, M. A., Ekiert, H., Kwaśniak, B., Sikora, E., & Szopa, A. (2023). *Vitis vinifera* (Vine Grape) as a Valuable Cosmetic Raw Material. *Pharmaceutics*, *15*(5), 1–21. <https://doi.org/10.3390/pharmaceutics15051372>
- Sharmeen, J. B., Mahomoodally, F. M., Zengin, G., & Maggi, F. (2021). Essential oils as natural sources of fragrance compounds for cosmetics and cosmeceuticals. *Molecules*, *26*(3). <https://doi.org/10.3390/molecules26030666>
- Sheskey, P. J., Cook, W. G., & Cable, C. G. (2017). Handbook of Pharmaceutical Excipient (8th ed.). In *Pharmaceutical Press*.
- Shintyawati, D., Widiastuti, R., & Sulistyowati, R. (2024). Formulasi dan Uji Stabilitas Fisik Emulgel Ekstrak Daun Binahong (*Anredera cordifolia*) sebagai Tabir Surya. *Forte Journal*, *4*(1), 01–12. <https://doi.org/10.51771/fj.v4i1.626>
- Slamet, S., Anggun, B. D., & Pambudi, D. B. (2020). Uji Stabilitas Fisik Formula Sediaan Gel Ekstrak Daun Kelor (*Moringa Oleifera* Lamk.) Slamet. *Jurnal Ilmiah Kesehatan*, *13*(2), 115–122.
- Sohail, M., Naveed, A., Abdul, R., Gulfishan, Muhammad Shoaib Khan, H., & Khan, H. (2018). An approach to enhanced stability: Formulation and characterization of *Solanum lycopersicum* derived lycopene based topical emulgel. *Saudi Pharmaceutical Journal*, *26*(8), 1170–1177. <https://doi.org/10.1016/j.jsps.2018.07.005>
- Sundari, I., Ginting, N., Chiuman, L., & Lister, N. E. (2019). Determination Sunscreen Potential of Grapeseed Oil (*Vitis Vinifera*) in Cream Preparation with Combination of Oxybenzone and Octyl Methoxycinnamate by in Vitro Method. *Technology, and Sciences (ASRJETS) American Scientific Research Journal for Engineering*, *62*(1), 172–178. <http://asrjetsjournal.org/>
- Suryani, A. I., Buana, K. D. M., Shantyoga, N. P. I. P., Desriati, N. L. E., & Faisal, M. (2025). *Carbopol-Based Clove Oil (Syzygium aromaticum) Emulgel* : *7*(3), 340–350.
- Sutjahjokartiko, S. (2017). Pengaruh Konsentrasi Pengawet Dmdm Hydantoin Terhadap Karakteristik, Stabilitas Fisika & pH Pada Water Based Pomade Yang Mengandung Ekstrak Aloe Vera. *Jurnal Ilmiah Mahasiswa Universitas Surabaya*, *6*(2), 553–566.
- Suwarno, K. N., Pratiwi, V. H., Guseynova, S., Safitri, A. N., Hanifah, I. N., Arafat, A., Supianti, N., Mentari, I. A., & Kustiawan, P. M. (2024). Edukasi Pemanfaatan Bahan Alam Untuk Kosmetik Guna Membangun Kesadaran

- Masyarakat. *BERNAS: Jurnal Pengabdian Kepada Masyarakat*, 5(3), 2014–2022. <https://doi.org/10.31949/jb.v5i3.9256>
- Tambunan, S., & Sulaiman, T. N. S. (2018). Formulasi Gel Minyak Atsiri Sereh dengan Basis HPMC dan Karbopol. *Majalah Farmaseutik*, 14(2), 87–95.
- 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>
- Tungadi, R., Sy. Pakaya, M., & D.as'ali, P. W. (2023). Formulasi dan Evaluasi Stabilitas Fisik Sediaan Krim Senyawa Astaxanthin. *Indonesian Journal of Pharmaceutical Education*, 3(1), 117–124. <https://doi.org/10.37311/ijpe.v3i1.14612>
- Turdiyanto, T., Iswandi, I., & Kuncahyo, I. (2023). Karakterisasi Dan Optimasi Emulgel Na Diklofenak Dengan Metode Simplex Lattice Design. *Jurnal Ilmiah Ibnu Sina (JIIS): Ilmu Farmasi dan Kesehatan*, 8(2), 239–252. <https://doi.org/10.36387/jiis.v8i2.1414>
- Uzma, N. S., Budi, S., & Rahmadani, R. (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>
- Wahyuni P. (2018). Penentuan Nilai SPF Krim Tabir Surya Berbasis Minyak Biji Anggur. *Herbal Medicine Journal*, 1(1), 15–19.
- Widyawati, E., Ayuningtyas, N. D., & Pitarisa, A. P. (2019). Penentuan Nilai SPF Ekstrak Dan Losio Tabir Surya Ekstrak Etanol Daun Kersen (*Muntingia calabura* L .) Penentuan Nilai SPF Ekstrak Dan Losio Tabir Surya Ekstrak Etanol Daun kerssen (*Muntingia calabura* L.) D. *Jurnal Riset Kefarmasian Indonesia*, 1(3), 189–202.
- Wulandari, A., Rustiani, E., Andini, S., & Sinaga, D. (2023). Formulasi Sediaan Emulgel Ekstrak Daun Ungu Dengan Penambahan Bioenhancer Ekstrak Lidah Buaya Asri. *Jurnal Fitofarmaka Indonesia*, 10(1), 29–34. <https://doi.org/10.33096/jffi.v9i2.864>
- Yasin, R. A. (2017). Uji Potensi Tabir Surya Ekstrak Kulit Buah Jeruk Nipis (*Citrus aurantifolia*) secara In Vitro. *Universitas Islam Negeri Alauddin Makassar*.
- Zhou, Y., Wu, L., Zhang, Y., Hu, J., Fardous, J., Ikegami, Y., & Ijima, H. (2025).

Topical Delivery of Ceramide by Oil-in-Water Nanoemulsion to Retain Epidermal Moisture Content in Dermatitis. *Biomolecules*, 15(5), 1–19. <https://doi.org/10.3390/biom15050608>

Zulkarnain, A. K., Ichسانی, C. N., & Judiantoro, C. L. (2023). Physical properties and stability of grapeseed oil (*Vitis vinifera* L.) skincare formula with gelling agent combination of Na-CMC-carbopol and HPMC-carbopol. *Indonesian Journal of Pharmacology and Therapy*, 4(2), 64–72. <https://doi.org/10.22146/ijpther.8279>