

## DAFTAR PUSTAKA

- Abd, E., Benson, H., Roberts, M., dan Grice, J., 2018. Minoxidil Skin Delivery from Nanoemulsion Formulations Containing Eucalyptol or Oleic Acid: Enhanced Diffusivity and Follicular Targeting. *Pharmaceutics*, **10**: 1–12.
- Abd, E., Namjoshi, S., Mohammed, Y.H., Roberts, M.S., dan Grice, J.E., 2016. Synergistic Skin Penetration Enhancer and Nanoemulsion Formulations Promote the Human Epidermal Permeation of Caffeine and Naproxen. *Journal of Pharmaceutical Sciences*, **105**: 212–220.
- Aisyah, Y., Haryani, S., Safriani, N., dan Husna, N.E., 2018. Optimization of Emulsification Process Parameters of Cinnamon Oil Nanoemulsion. *International Journal on Advance Science Engineering Information Technology*, **8**: 2092–2098.
- Almas, J.F., Chasanah, U., dan Rahmasari, D., 2022. Activity of Hair Tonic Nanoemulsion with Candlenut Oil (*Aleurites Moluccana*) on Mice (*Mus Musculus*). *KnE Medicine*, **2022**: 630–636.
- Anto, S.T., 2020. *Rempah-Rempah dan Minyak Atsiri*. Penerbit Lakeisha, Jawa Tengah.
- Atala, A., Lanza, R., Mikos, T., dan Nerem, R., 2018. *Principles of Regenerative Medicine*. Academic Press, Massachusetts.
- Atmanto, D., 2019. Influence of the Addition of the Essential Oil of Cinnamon (*Cinnamomum burmannii*) in Soap Against Skin Care. *KnE Social Sciences*, **3**: 587–595.
- Badran, M.M., Taha, E.I., Tayel, M.M., dan Al-Suwayeh, S.A., 2014. Ultra-fine Self Nanoemulsifying Drug Delivery System for Transdermal Delivery of Meloxicam: Dependency on The Type of Surfactants. *Journal of Molecular Liquids*, **190**: 16–22.
- Baskara, A.P., Riyadi, B., Dono, N.D., Martien, R., dan Zuprizal, 2017. Formulation and Characterization of Cinnamon Bark Essential Oil (*Cinnamomum burmannii*) Nanoemulsion as Poultry Feed Additive Candidate. *International Seminar on Tropical Animal Production (ISTAP)*, 357–362.
- Beandrade, M.U., 2018. Formulasi dan Karakterisasi SNEDDS Ekstrak Jinten Hitam (*Nigella Sativa*) dengan Fase Minyak Ikan Hiu Cucut Botol (*Centrophorus Sp*) serta Uji Aktivitas Imunostimulan. *JPSCR : Journal of Pharmaceutical Science and Clinical Research*, **3**: 50.
- Benelli, G., Pavoni, L., Zeni, V., Ricciardi, R., Cosci, F., Cacopardo, G., dkk., 2020. Developing a Highly Stable *Carlina acaulis* Essential Oil Nanoemulsion for Managing *Lobesia botrana*. *Nanomaterials*, **10**: 1–15.

- Bhattacharya, S. dan Prajapati, B.G., 2017. Formulation and Optimization of Celecoxib Nanoemulgel. *Asian Journal of Pharmaceutical and Clinical Research*, **10**: 353–365.
- Borthakur, P., Boruah, P.K., Sharma, B., dan Das, M.R., 2016. 5 - Nanoemulsion: Preparation and Its Application in Food Industry, dalam: Grumezescu, A.M. (Editor), *Emulsions, Nanotechnology in the Agri-Food Industry*. Academic Press, hal. 153–191.
- BPOM, R., 2014. *Peraturan Kepala BPOM Republik Indonesia Nomor 7 Tahun 2014 Tentang Pedoman Uji Toksisitas Nonklinik Secara In Vivo*. BPOM, Jakarta.
- Chen, N.L., 2021. *101 Amazing Uses for Cinnamon*. Hachette UK, USA.
- Chime, S.A., Kenechukwu, F.C., Attama, A.A., Chime, S.A., Kenechukwu, F.C., dan Attama, A.A., 2014. Nanoemulsions — Advances in Formulation, Characterization and Applications in Drug Delivery, dalam: *Application of Nanotechnology in Drug Delivery*. IntechOpen, Croatia.
- Chircov, C. dan Grumezescu, A.M., 2019. Nanoemulsion Preparation, Characterization, and Application in The Field of Biomedicine, dalam: *Nanoarchitectonics in Biomedicine*. Elsevier, hal. 169–188.
- Choironi, N.A., Pudyastuti, B., Gumelar, G., Fareza, M.S., Wijaya, T.H., dan Setyono, J., 2022. Optimasi Formula Self-Nanoemulsifying Drug Delivery System (SNEDDS) Etil-p-metoksisinamat (EPMS). *ALCHEMY Jurnal Penelitian Kimia*, **18**: 205–213.
- Christenson, D.E., 2019. *Veterinary Medical Terminology E-Book*. Elsevier Health Sciences, Michigan State University.
- Chun, J.-Y., Jo, Y.-J., Bjrappa, P., Choi, M.-J., dan Min, S.-G., 2015. Antimicrobial Effect of  $\alpha$ - or  $\beta$ -Cyclodextrin Complexes with Trans-Cinnamaldehyde Against *Staphylococcus aureus* and *Escherichia coli*. *Drying Technology*, **33**: 377–383.
- Danaei, M., Dehghankhold, M., Ataei, S., Hasanzadeh Davarani, F., Javanmard, R., Dokhani, A., dkk., 2018. Impact of Particle Size and Polydispersity Index on the Clinical Applications of Lipidic Nanocarrier Systems. *Pharmaceutics*, **10**: 1–17.
- Deng, Y., Huang, F., Wang, J., Zhang, Yumeng, Zhang, Yan, Su, G., dkk., 2021. Hair Growth Promoting Activity of Cedrol Nanoemulsion in C57BL/6 Mice and Its Bioavailability. *Molecules*, **26**: 1–15.
- Draelos, Z.D., 2010. *Cosmetic Dermatology Products and Procedures*. Wiley-Blackwell, West Sussex.
- Dwipayana, I.M., Suhendra, L., dan Triani, I.G.A.L., 2022. Pengaruh Rasio Campuran Surfaktan dan Minyak Atsiri Jahe (*Zingiber Officinale* Var.

- Amarum) terhadap Karakteristik Mikroemulsi yang Dihasilkan. *Jurnal Rekayasa dan Manajemen Agroindustri*, **10**: 1–11.
- Eid, A.M.M., Elmarzugi, N.A., dan El-Enshasy, H.A., 2013. Preparation and Evaluation Of Olive Oil Nanoemulsion Using Sucrose Monoester. *International Journal of Pharmacy and Pharmaceutical Sciences*, **5**: 434–440.
- El-Sayed, S.M. dan Hoda, E.-S., 2021. Antimicrobial Nanoemulsion Formulation based on Thyme (*Thymus vulgaris*) Essential oil for UF labneh Preservation. *Journal of Materials Research and Technology*, **10**: 1029–1041.
- Fajar, A., Ammar, G.A., Hamzah, M., Manurung, R., dan Yusuf, M., 2019. Effect of Tree Age on The Yield, Productivity, and Chemical Composition of Essential Oil from *Cinnamomum burmannii*. *Current Research on Biosciences and Biotechnology*, **1**: 17–22.
- Febriani, A., Elya, B., dan Jufri, M., 2016. Uji Akvitas dan Keamanan Hair Tonic Ekstrak Daun Kembang Sepatu (*Hibiscus rosa-sinensis*) Pada Pertumbuhan Rambut Kelinci. *Jurnal Farmasi Indonesia*, **8**: 259–270.
- Grumezescu, A., 2016. *Nanobiomaterials in Cancer Therapy - 1st Edition*. Elsevier, Amsterdam.
- Grumezescu, A.M., 2016. *Encapsulations*. Academic Press, USA.
- Gu, Y., Bian, Q., Zhou, Y., Huang, Q., dan Gao, J., 2022. Hair Follicle-Targeting Drug Delivery Strategies for The Management of Hair Follicle-associated Disorders. *Asian Journal of Pharmaceutical Sciences*, **17**: 333–352.
- Gull, A., Ahmed, S., Ahmad, F.J., Nagaich, U., dan Chandra, A., 2020. Hydrogel Thickened Microemulsion; A Local Cargo for The Co-delivery of Cinnamaldehyde and Berberine to Treat Acne vulgaris. *Journal of Drug Delivery Science and Technology*, **58**: 1–10.
- Gunawan, H., Sugiarti, Marfuah, W., dan Nina, M., 2019. *100 Spesies Pohon Nusantara: Target Konservasi Ex Situ Taman Keanekaragaman Hayati*. IPB Press, Bogor.
- Gupta, A., Eral, B., Hatton, T., dan Doyle, P., 2016. Nanoemulsions: Formation, Properties and Applications. *Soft Matter*, **12**: 2826–2841.
- Guterres, S., Vidor Contri, R., Abrahão Frank, L., Kaiser, M., dan R. Pohlmann, A., 2014. The Use of Nanoencapsulation to Decrease Human Skin Irritation Caused by Capsaicinoids. *International Journal of Nanomedicine*, **9**: 951–962.
- Haliza, M.N., Amananti, W., dan Santoso, J., 2020. Formulasi Sediaan Serum Spray Ekstrak Pegagan (*Centella asiatica* L.) sebagai Anti Aging Alami. *Politeknik Harapan Bersama Tegal*, **7**: 1–6.

- Hendradi, E., Chasanah, U., Indriani, T., dan Fionnayuristy, 2013. Pengaruh Gliserin dan Propilenglikol terhadap Karakteristik Fisik, Kimia dan SPF Sediaan Krim Tipe O/W Ekstrak Biji Kakao (*Theobroma cacao* L). *PharmaScientia*, **2**: 31–42.
- Herbianto, A.S., 2018. Pengaruh Perbedaan Konsentrasi Surfaktan Terhadap Karakter Fisik dan pH Nanoemulsi Pencerah Kulit. *Jurnal Ilmiah Mahasiswa Universitas Surabaya*, **7**: 736–746.
- Hindun, S., Akmal, A., Najihuddin, A., dan Sari, N., 2017. Formulation of Hair Tonic Combination of Celery and Green Tea Leaves Ethanol Extract For Rabbit Hair Growth. *Jurnal Ilmiah Farmako Bahari*, **8**: 21–33.
- Hojland, C., Andersen, H., Poulsen, J., Arendt-Nielsen, L., dan Gazerani, P., 2015. A Human Surrogate Model of Itch Utilizing the TRPA1 Agonist Trans-cinnamaldehyde. *Acta Dermato Venereologica*, **95**: 798–803.
- Indrati, O., Martien, R., Rohman, A., dan Nugroho, A.K., 2020. Application of Simplex Lattice Design on the Optimization of Andrographolide Self Nanoemulsifying Drug Delivery System (SNEDDS). *Indonesian Journal of Pharmacy*, **31**: 124–130.
- Indriana, L., Pangkahila, W., dan Aman, I.G.M., 2018. Topical Application of Cinnamon (*cinnamomum burmannii*) Essential Oil has The Same Effectiveness as Minoxidil in Increasing Hair Length and Diameter Size of Hair Follicles in Male White Wistar Rats. *Indonesia Journal of Anti-Aging Medicine*, **2**: 13–16.
- ISO 10993-10, I.S., 2002. *Biological Evaluation of Medical Devices, Part 10 – Tests for Irritation and Delayed-Type Hypersensitivity, Second Edition*.
- Iswari, F.L., Retno, 2013. *Buku Pegangan Ilmu Pengetahuan Kosmetik*. Gramedia Pustaka Utama.
- Jafari, S.M. dan McClements, D.J., 2018. *Nanoemulsions: Formulation, Applications, and Characterization*. Academic Press, India.
- Jain, S.K., Verma, A., Jain, A., dan Hurkat, P., 2016. Transfollicular drug delivery: current perspectives. *Research and Reports in Transdermal Drug Delivery*, **1**.
- Juliantoni, Y., Hajrin, W., dan Subaidah, W.A., 2020. Nanoparticle Formula Optimization of Juwet Seeds Extract (*Syzygium cumini*) using Simplex Lattice Design Method. *Jurnal Biologi Tropis*, **20**: 416–422.
- Kakoty, M. dan Gogoi, S.B., 2018. Evaluation of Surfactant Formulation for EOR in Some Depleted Oil Fields of Upper Assam. *Proceedings of The 2nd GeoMEast: International Congress and Exhibition*, 57–75.
- Keniston-Pond, K., 2017. *Essential Oils 101: Your Guide to Understanding and Using Essential Oils*. Simon and Schuster, USA.

- Khodaeiani, E., Shahla Babaeinejad, Mahsa Jamshidi Asl, Elham Razzagh Karimi, Daniel F. Fouladi, dan Morteza Ghojzadeh, 2014. Changes of Hair Diameter after Treatment of Androgenic Alopecia; the First Case-control Study. *Journal of Medical Sciences*, **14**: 97–100.
- Kim, J.K., Zeb, A., Qureshi, O.S., Kim, Hyung-Seo, Cha, J.-H., dan Kim, Hoo-Seong, 2016. Improved skin permeation of methotrexate via nanosized ultradeformable liposomes. *International Journal of Nanomedicine*, **11**: 3813–3824.
- Kuncari, E.S., Iskandarsyah, dan Praptiwi, 2015. Uji Iritasi dan Aktivitas Pertumbuhan Rambut Tikus Putih: Efek Sediaan Gel Apigenin dan Perasan Herba Seledri (*Apium graveolens* L.). *Media Litbangkes*, **25**: 15–22.
- Li, J., Yang, Z., Li, Z., Gu, L., Wang, Y., dan Sung, C., 2014. Exogenous IGF-1 promotes hair growth by stimulating cell proliferation and down regulating TGF- $\beta$ 1 in C57BL/6 mice in vivo. *Growth Hormone & IGF Research*, **24**: 89–94.
- Listyorini, N.M.D., Wijayanti, N.L.P.D., dan Astuti, K.W., 2018. Optimasi Pembuatan Nanoemulsi Virgin Coconut Oil. *Jurnal Kimia*, 8–12.
- Liu, Y., Liang, X., Zhang, R., Lan, W., dan Qin, W., 2017. Fabrication of Electrospun Polylactic Acid/Cinnamaldehyde/ $\beta$ -Cyclodextrin Fibers as an Antimicrobial Wound Dressing. *Polymers*, **9**: 1–14.
- Lopedota, A., Denora, N., Laquintana, V., Cutrignelli, A., Lopalco, A., Tricarico, D., dkk., 2018. Alginate-Based Hydrogel Containing Minoxidil/Hydroxypropyl- $\beta$ -Cyclodextrin Inclusion Complex for Topical Alopecia Treatment. *Journal of Pharmaceutical Sciences*, **107**: 1046–1054.
- Luliana, S., Desnita, R., dan Rawinda, R., 2018. Formulation of Hair Tonic of Meniran (*Phyllanthus niruri* L.) Ethanol Extract as Hair Grower in Male White Rat (*Rattus norvegicus*) Wistar Strain. *International Journal for Pharmaceutical Research Scholars*, **7**: 136–145.
- Maali, A. dan Mosavian, M.T.H., 2013. Preparation and Application of Nanoemulsions in the Last Decade (2000–2010). *Journal of Dispersion Science and Technology*, **34**: 92–105.
- Mahfoudhi, N., Ksouri, R., dan Hamdi, S., 2016. 11 - Nanoemulsions as potential delivery systems for bioactive compounds in food systems: preparation, characterization, and applications in food industry, dalam: Grumezescu, A.M. (Editor), *Emulsions, Nanotechnology in the Agri-Food Industry*. Academic Press, hal. 365–403.
- Mandal, D., Shukla, A.C., dan Siddiqui, M.W., 2018. *Sustainable Horticulture, Volume 2:: Food, Health, and Nutrition*. CRC Press, USA.
- Mansouri, S., Pajohi-Alamoti, M., Aghajani, N., Bazargani-Gilani, B., dan Nourian, A., 2021. Stability and Antibacterial Activity of *Thymus daenensis* L.



- Essential Oil Nanoemulsion in Mayonnaise. *Journal of the Science of Food and Agriculture*, **101**: 3880–3888.
- Mardhiani, Y.D., 2017. Formulasi dan Stabilitas Sediaan Serum dari Ekstrak Kopi Hijau (*Coffea canephora* var. Robusta) sebagai Antioksidan. *Indonesia Natural Research Pharmaceutical Journal*, **2**: 19–33.
- Masoud, F., Alamdari, H.A., Asnaashari, S., Shokri, J., dan Javadzadeh, Y., 2020. Efficacy and safety of a novel herbal solution for the treatment of androgenetic alopecia and comparison with 5% minoxidil: A double-blind, randomized controlled trial study. *Dermatologic Therapy*, **33**: 1–24.
- Matos, B.N., Reis, T.A., Gratieri, T., dan Gelfuso, G.M., 2015. Chitosan Nanoparticles for Targeting and Sustaining Minoxidil Sulphate Delivery to Hair Follicles. *International Journal of Biological Macromolecules*, **75**: 225–229.
- Mayer, S., Weiss, J., dan McClements, D.J., 2013. Vitamin E-enriched nanoemulsions formed by emulsion phase inversion: Factors influencing droplet size and stability. *Journal of Colloid and Interface Science*, **402**: 122–130.
- Miteva, M.I., 2018. *Alopecia*. Elsevier Health Sciences, USA.
- Namer, B., Seifert, F., Handwerker, H.O., dan Maih, C., 2005. TRPA1 and TRPM8 activation in humans: effects of cinnamaldehyde and menthol. *Neuro Report*, **16**: 955–959.
- Ningrum, K.N., 2018. 'Efektivitas Hidrolisat Kolagen Ikan untuk Mencegah Kerontokan Rambut dalam Sediaan Serum Rambut', , *Skripsi*, . Institut Pertanian Bogor, Bogor.
- Nirmalayanti, N.L.P.K.V., 2021. Skrining Berbagai Jenis Surfaktan Dan Kosurfaktan Sebagai Dasar Pemilihan Formulasi Nanoemulsi. *Metta : Jurnal Ilmu Multidisiplin*, **1**: 158–166.
- OECD, O. for E.C. and D., 2002. *OECD 404 Guidelines for Testing of Chemicals – Acute Dermal Irritation/Corrosion*.
- Orasan, M.S., Roman, I.I., Coneac, A., Muresan, A., dan Orasan, R.I., 2016. Hair Loss and Regeneration Performed on Animal Models. *Medicine and Pharmacy Reports*, **89**: 327–334.
- Plumeriastuti, H., Budiastuti, B., Effendi, M., dan Budiarto, B., 2019. Identification of bioactive compound of the essential oils of *Cinnamomum burmannii* from several areas in Indonesia by gas chromatography-mass spectrometry method for antidiabetic potential. *National Journal of Physiology, Pharmacy and Pharmacology*, **8**: 279–283.
- Pongsumpun, P., Iwamoto, S., dan Siripatrawan, U., 2020. Response surface methodology for optimization of cinnamon essential oil nanoemulsion with

- improved stability and antifungal activity. *Ultrasonics Sonochemistry*, **60**: 1–10.
- Pratiwi, L., Fudholi, A., Martien, R., dan Pramono, S., 2017. Self-nanoemulsifying Drug Delivery System (Snedds) for Topical Delivery of Mangosteen Peels (*Garcinia Mangostana* L.): Formulation Design and In vitro Studies. *Journal of Young Pharmacists*, **9**: 341–346.
- Rachmawati, H., Budiputra, D.K., dan Mauludin, R., 2015. Curcumin nanoemulsion for transdermal application: formulation and evaluation. *Drug Development and Industrial Pharmacy*, **41**: 560–566.
- Ranti, N.A.N., 2017. 'Uji Stabilitas Fisik Ekstrak Meniran (*Phyllanthus niruri* Linn.) Terstandar dalam Bentuk Sediaan SNEDDS', . Universitas Islam Indonesia, Yogyakarta.
- Rasyadi, Y., 2018. Formulasi Sediaan Kumur dari Ekstrak Daun Sukun *Artocarpus altilis* (Parkinson ex F.A.Zorn) Fosberg. *Chempublish Journal*, **3**: 76–84.
- Ratnapuri, P.H., Fitriana, M., Anggi, A.R., Sa'adah, N., Dewi, T.R., Helsawati, dkk., 2022. Formulasi dan Evaluasi Nanoemulsi dari Ekstrak Herba Kelakai dengan Kombinasi Tween 80 dan Propilenglikol. *Prosiding Seminar Nasional Lingkungan Lahan Basah*, **7**: 262–268.
- Roizen, M. dan Mehmet, C., 2010. *Being beautiful: sehat dan cantik luar dalam ala Dr. Oz*. PT Mizan Publika, New York.
- Rosalina, D., 2014. *Detox Water: 50 variasi minuman buah dan herbal berkhasiat*. Kawan Pustaka, Jakarta Selatan.
- Rowe, R.C., Sheskey, P.J., dan Quinn, M.E., 2009. *Handbook of Pharmaceutical Excipients*, 6th ed. ed. Pharmaceutical press, London.
- Ryu, V., McClements, D.J., Corradini, M.G., dan McLandsborough, L., 2018. Effect of Ripening Inhibitor Type on Formation, Stability, and Antimicrobial Activity of Thyme Oil Nanoemulsion. *Food Chemistry*, **245**: 104–111.
- Saberi, A.H., Fang, Y., dan McClements, D.J., 2013. Fabrication of vitamin E-enriched nanoemulsions by spontaneous emulsification: Effect of propylene glycol and ethanol on formation, stability, and properties. *Food Research International*, **54**: 812–820.
- Sadoon, N.A. dan M. Ghareeb, M., 2020. Formulation and Characterization of Isradipine as Oral Nanoemulsion. *Iraqi Journal of Pharmaceutical Sciences ( P-ISSN: 1683 - 3597 , E-ISSN: 2521 - 3512)*, **29**: 143–153.
- Saladin, K.S. dan Gan, C.A., 2020. *Human Anatomy*, Sixth edition. ed. McGraw-Hill Education, New York, NY.
- Sativa, N., Noviyanti, N., Pratiwi, R.A., dan Hindun, S., 2022. Formulasi dan Uji Aktivitas Tonik Rambut Ekstrak Etanol Daun Bidara (*Ziziphus nummularia*) pada Kelinci. *Buletin Penelitian Tanaman Rempah dan Obat*, **32**: 40–51.

- Savin, R.C., 1987. Use of Topical Minoxidil in The Treatment of Male Pattern Baldness. *Journal of the American Academy of Dermatology*, **16**: 696–704.
- Sekar, M., Priya, N.V., Ramesh, R., dan Kumar, G.S., 2016. Formulation and Evaluation of Hair Tonic From Ziziphus Jujuba Leaf Extract. *Internation Journal of Pharmaceutical, Chemical and Biological Sciences*, **6**: 447–454.
- Septiyanti, M., Liana, L., Sutriningsih, Kumayanjati, B., dan Meliana, Y., 2019. Formulation and evaluation of serum from red, brown and green algae extract for anti-aging base material. *AIP Conference Proceedings*, **2175**: 1–11.
- Shahtalebi, M.A., Sadat-Hosseini, A., dan Safaeian, L., 2016. Preparation and evaluation of clove oil in emu oil self-emulsion for hair conditioning and hair loss prevention. *Journal of HerbMed Pharmacology*, **5**: 1–6.
- Shoviantari, F., Liziarmezilia, Z., Bahing, A., dan Agustina, L., 2019. Uji Aktivitas Tonik Rambut Nanoemulsi Minyak Kemiri (*Aleurites moluccana* L.). *Jurnal Farmasi dan Ilmu Kefarmasian Indonesia*, **6**: 69–72.
- Soesilawati, P., 2020. *Histologi Kedokteran Dasar*. Airlangga University Press.
- Sondari, D. dan Tursiloadi, S., 2018. The effect of surfactan on formulation and stability of nanoemulsion using extract of Centella Asiatica and Zingiber Officinale. *AIP Conference Proceedings*, **2049**: 1–6.
- Su, R., Fan, W., Yu, Q., Dong, X., Qi, J., Zhu, Q., dkk., 2017. Size-dependent penetration of nanoemulsions into epidermis and hair follicles: implications for transdermal delivery and immunization. *Oncotarget*, **8**: 38214–38226.
- Sulistiyorini, D.E.W. dan Susilowati, A., 2021. *Sanitasi Hygiene Kecantikan SMK/MAK Kelas X: Bidang Keahlian Pariwisata, Program Keahlian Tata Kecantikan, Kompetensi Keahlian Kecantikan Kulit dan Rambut*. Penerbit Andi, Yogyakarta.
- Suwarto, Octavianty, Y., dan Hermawati, S., 2014. *Top 15 Tanaman Perkebunan*. Penebar Swadaya Grup, Jakarta.
- Syukri, Y., Kholidah, Z., dan Chabib, L., 2020. Fabrikasi dan Studi Stabilitas Self-Nano Emulsifying Propolis menggunakan Minyak Kesturi sebagai Pembawa. *Jurnal Sains Farmasi & Klinis*, **6**: 265–273.
- Tansathien, K., Chareanputtakhun, P., Ngawhirunpat, T., Opanasopit, P., dan Rangsimawong, W., 2021. Hair growth promoting effect of bioactive extract from deer antler velvet-loaded niosomes and microspicules serum. *International Journal of Pharmaceutics*, **597**: 1–11.
- Thakre, A.D., 2017. Formulation and Development of De Pigment Serum Incorporating Fruits Extract. *International Journal of Innovative Science and Research Technology*, **2**: 330–382.
- Utami, P. dan Puspaningtyas, D.E., 2013. *The Miracle of Herbs*. AgroMedia, Jakarta Selatan.



- Valizadeh, A., Shirzad, M., Esmaili, F., dan Amani, A., 2018. Increased antibacterial activity of Cinnamon Oil Microemulsion in Comparison with Cinnamon Oil Bulk and Nanoemulsion. *Nanomedicine Research Journal*, **3**: 37–43.
- Vellayanti, S., 2020. 'Formulasi dan Karakterisasi Sediaan Serum Nanopartikel Emas Daun Tin', , *Skripsi*, . Universitas Islam Indonesia, Yogyakarta.
- Verawaty, Sulimar, N., dan Dewi, I.P., 2020. Formulasi dan Evaluasi Sediaan Masker Sheet Ekstrak Etanol Daun Sirih Merah (*Piper crocatum* Ruiz & Pav). *Jurnal Ilmiah Manuntung*, **6**: 223–230.
- Vogt, A., Hadam, S., Deckert, I., Schmidt, J., Stroux, A., Afraz, Z., dkk., 2015. Hair follicle targeting, penetration enhancement and Langerhans cell activation make cyanoacrylate skin surface stripping a promising delivery technique for transcutaneous immunization with large molecules and particle-based vaccines. *Experimental Dermatology*, **24**: 73–75.
- Yu, C., Li, Y.-L., Liang, M., Dai, S.-Y., Ma, L., Li, W.-G., dkk., 2020. Characteristics and hazards of the cinnamaldehyde oxidation process. *RSC Advances*, **10**: 19124–19133.