

DAFTAR PUSTAKA

- Ariyanti, L., 2016, Beta Glucan Extraction of Oyster Mushroom (*Pleurotus ostreatus*) with Boiling Time Effect, *Skripsi*, Departemen Fisika Fakultas Matematika dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor.
- Badan Standarisasi Nasional (BSN), 2007, *Standar Nasional Indonesia: Sediaan Tabir Surya*, Badan Standarisasi Nasional, Jakarta.
- Barmar, M., Barikani, M., dan Kaffashi, B., 2005, Steady Shear Viscosity Study of Various HEUR Models with Hydrophilic and Hydrophobic Sizes, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **253**: 77-82.
- Baumann, L., 2009, *Cosmetic Dermatology Principles and Practice*, 2nd ed., McGraw-Hill Companies, Inc., New York.
- Becker L.C., Bergfeld W.F., Belsito D.V., Hill R.A., Klaassen C.D., Liebler D.C., Marks J.G. Jr., Shank R.C., Slaga T.J., Snyder P.W., Gill L.J., dan Heldreth B., 2019, Safety Assessment of Glycerin as Used in Cosmetics, *Int J Toxicol.*, **38**(3_suppl): 6S-22S. doi: 10.1177/1091581819883820. PMID: 31840548.
- Busnel, J., Descroix, S., Varenne, A., dan Gohon Y., 2005, Evaluation of Capillary Isoelectric Focusing in Glycerol-AWater with a View to Hydrophobic Protein Applications, *Electrophoresis*, **26**: 3369-3379.
- Chen, X., Chew, S.L., Kerton, F.M., dan Yan, N., 2014, Direct Conversion of Chitin into a N-Containing Furan Derivative, *Green Chem.*, **16**: 2204-2212.
- Choudhary, V., Kaddour-Djebbar, I., Custer, V.E., Uaratanawong, R., Chen, X., Cohen, E., Yangm R., Ajebo, E., Hossack, S., dan Bollag, W.B., 2021, Glycerol Improves Skin Lesion Development in the Imiquimod Mouse Model of Psoriasis: Experimental Confirmation of Anecdotal Reports from Patients with Psoriasis, *Int J Mol Sci.*, **22**(16): 8749. doi: 10.3390/ijms22168749. PMID: 34445455; PMCID: PMC8395744.
- Cowan, M.M., 1999, Plant Products as Antimicrobial Agents, *Clin Microbiol Rev.*, **12**(4): 564-82. doi: 10.1128/CMR.12.4.564. PMID: 10515903; PMCID: PMC88925.
- Depkes RI, 2020, *Farmakope Indonesia*, Edisi VI, Departemen Kesehatan Republik Indonesia, Jakarta.

- Dewi, R., Anwar, E., dan Yunita, K. S., 2014, Uji Stabilitas Fisik Formula Krim yang Mengandung Ekstrak Kacang Kedelai (*Glycine max*), *Pharm Sci Res*, **1**(3): 194–208.
- Dewi, N.K.K.A., dan Arimurni, D.A., 2021, Optimasi Komposisi Setil alkohol dan Minyak Zaitun dalam Lulur Krim Serbuk Buah Mahkota Dewa (*Phaleria Macrocarpai*), *Jurnal Ilmu Mahaganesha*, **16**(2): 178-187.
- Dina, A., Pramono, S., dan Nining Sugihartini, 2017, Formulation Ethyl-Acetate Fraction from Jackfruit Bark Extract (*Artocarpus heterophyllus Lamk*), *Jurnal Ilmu Kefarmasian Indonesia*, **15**(2): 134- 139.
- Djarijah, N.M., dan Djarijah, A.S., 2001, *Jamur Tiram Pembibitan, Pemeliharaan, dan Pengendalian Hama Penyakit*, Kanisius, Yogyakarta.
- Dominica, D., dan Handayani, D., 2019. Formulasi dan Evaluasi Sediaan *Lotion* dari Ekstrak Daun Lengkek (*Dimocarpus longan*) sebagai Antioksidan, *Jurnal Farmasi dan Ilmu Kefarmasian Indonesia*, **6**(1): 1–7.
- Donowati, T., Widyastuti, N., dan Giarni, R., 2019, Ekstraksi Beta-Glukan dari Jamur Tiram (*Pleurotus ostreatus*) untuk Minuman Kesehatan, *Jurnal Sains dan Teknologi Indonesia*, **16**(1).
- Donzis, B.A., 1993, *Method for Revitalizing Skin by Applying Topically Water Insoluble Glucan*, US Patent Number: US5223491A.
- Draelos, Z. D., dan DiNardo, J. C., 2006, A Re-evaluation of the Comedogenicity Concept, *Journal of the American Academy of Dermatology*, **54**(3): 507–512, doi:10.1016/j.jaad.2005.11.1058.
- Du B., Bian Z., dan Xu B., 2014, Skin Health Promotion Effects of Natural Beta-Glucan Derived from Cereals and Microorganisms: A Review, *Phytother Res.*, **28**(2): 159-66. doi: 10.1002/ptr.4963. Epub 2013 Mar 11. PMID: 23494974.
- Du, L., Zhang, X., Wang, C., dan Xiao, D., 2012, Preparation of Water Soluble Yeast Glucan by Four Kinds of Solubilizing Processes, *Engineering*, **5**: 184-188.
- Elcistia, R., dan Zulkarnain, A. K., 2018, Optimasi Formula Sediaan Krim O/W Kombinasi Oksibenzon dan Titanium Dioksida serta Uji Aktivitas Tabir Surya Secara *In Vivo*, *Majalah Farmaseutik*, **14**(2): 63–78.

- Ermawati, D.E., Surya, A.P., Setyawati, R., dan Niswah, S.U., 2022, The Effect of Glycerin and Polyethylene Glycol 400 as Humectant on Stability and Antibacterial Activity of Nanosilver Biosynthetic Peel-Off Mask, *Journal of Applied Pharmaceutical Science*, **12**(04): 080-089.
- Ermawati, D.E., dan Budiasih, D.Y., 2022, The Effect of Zinc Oxide and *Curcuma heyneana* Val. Combination on Stability and Sun Protection Factor (SPF) of Lotion, *Pharmaciana*, **12**(2): 327-334.
- Food and Drug Administration (FDA), 1996, Food Labeling: Health Claims: Iats and Coronary Heart Disease, *Fed Regist.*, **61**: 296-313.
- Fukushima, S., dan Yamaguchi, M., 2001, *Physical Chemistry of Cetyl Alcohol: Occurrence and Function of Liquid Crystals in O/W Creams*, In: Matijevic E, editors, Surface and Colloid Science, New York: Springer Science Business Media, **16**: 1-94.
- Fulton, J. E., 1989, Comedogenicity and Irritancy of Commonly Used Ingredients in Skin Care Products, *J. Soc. Cosmet. Chem.*, **40**: 321-333.
- Galichet, A., Sockalingum, G.D., Belarbi, A., dan Manfait, M., 2001, FTIR Spectroscopic Analysis of *Saccharomyces cerevisiae* Cell Walls: Study of an Anomalous Strain Exhibiting a Pink-Colored Cell Phenotype, *FEMS Microbiology Letters*, **197**: 179-186.
- Gallotti, F., Lavelli, V., dan Turchiuli, C., 2020, Application of *Pleurotus ostreatus* β -glucans for Oil-in-Water Emulsions Encapsulation in Powder, *Food Hydrocolloids*, **105**(5): 105841.
- Garg. A., Anggarwal, D., Garg, S., dan Singla, A., 2010, *Encyclopedia of Pharmaceutical Technology*, Discovery Publishing Pvt.Ltd.
- Hozová, Bernadetta - Kuniak, Ľudovít - Moravíková, Petra - Gajdošová, Alena, 2007, Determination of Water-Insoluble Beta-D-glucan in the Whole-grain Cereals and Pseudocereals, In: *Czech Journal of Food Sciences*, ISSN 1212-1800, **25**(6): 316-324.
- ICH, 2003, *Q1A(R2) Stability Testing Guidelines: Stability Testing of New Drug Substances and Products*, ICH Steering Committee.
- Iwalokum, B.A., Usen, U.A., Otunba, A.A., dan Olukoya, D.K., 2007, Comparative Phytochemical Evaluation, Antimicrobial and Antioxidant Properties of *Pleurotus ostreatus*, *African J of Biotechnology*, **6**(16): 1732-1739.

- Jesenak, M., Urbancek, S., Majtan, M.J., Banovcin, P., dan Hercogova J., 2015, β -Glucan-based Cream (Containing *Pleuran* Isolated from *Pleurotus ostreatus*) in Supportive Treatment of Mild-to Moderate Atopic Dermatitis, *J. Dermatol. Treat.*, **27**(4): 351-4, doi: 10.3109/09546634.2015.1117565.
- Kano, H., Kurogi, T., Shimizu, T., Nishimura, M., dan Murata, H., 2012, Viscosity and Adhesion Strength of Cream-type Denture Adhesives and Mouth Moisturizers, *Dent Mater J.*, **31**(6):960-8. doi: 10.4012/dmj.2012-004. PMID: 23207201.
- Kofuji, K., Aoki, A., Tsubaki, K., Konishi, M., Isobe, T., dan Murata, Y., 2012, Antioxidant Activity of β -Glucan, *ISRN Pharm.*, 2012: 125864 doi: 10.5402/2012/125864. Epub 2012 Feb 19. PMID: 22500243; PMCID: PMC3302110.
- Koutrotsios, G., Kalogeropoulos, N., Stathopoulos, P., Kaliora, A. C., dan Zervakis, G. I., 2017, Bioactive Compounds and Antioxidant Activity Exhibit High Intraspecific Variability in *Pleurotus ostreatus* Mushrooms and Correlate Well with Cultivation Performance Parameters, *World Journal of Microbiology and Biotechnology*, **33**: 1–14. <https://doi.org/10.1007/s11274-017-2262-1>.
- Krisdphong, T., Toida, T., Popp, M., Sichae, J., dan Natkankul, S., 2018, Evaluation of Immunological and Moisturizing Activities of Beta-glucan Isolated from Molasses Yeast Waste, *Indian J Pharm Sci.*, **80**(5): 795-801.
- Kusmiati, Tamat, S.R., Jusuf, E., dan Istiningsih, R., 2007, Beta Glucan Production from Two Strains of *Agrobacterium sp.* in Medium Containing of Molases and Uracil Combine, *Biodiversitas*, **8**(2): 123–129.
- Kusumawati, A.H., Munawaroh, A., dan Fikayuniar, L., 2021, Formulation and Physical Evaluation of Body Lotion Preparation of Kacip Fatimah (*Labisia pumila*) Ethanolic Extracts as Antioxidant, *IOP Conf. Ser.: Mater. Sci. Eng.*, doi:10.1088/1757-899X/1071/1/012010.
- Kuswana, W.W., Gadri, A., dan Suparman, A., 2017, Optimasi Formula Sediaan Lipstik dengan Kombinasi Basis Beeswax dan Carnauba Wax Menggunakan Metode SLD (*Simplex Lattice Design*), *Prosiding Farmasi*, **3**(2): 142-149.
- Lachman, L., H.A. Lieberman, and J.L. Kanig, 1994, Teori dan Praktek Farmasi Industri (*Theory and Practice of Industrial Pharmacy*), Jilid (Volume) II, Edisi III, Universitas Indonesia: 1119-1120.

- Lesi, K.N., Khandaker, M.U., Iqbal, F.M.R., Sharma, R., Islam, F., Mitra, S., dan Emran, T.B., 2022, Nutritional Value, Medicinal Importance, and Health-Promoting Effects of Dietary Mushroom (*Pleurotus ostreatus*), *Journal of Food Quality*, Article ID 2454180, 9 pages, <https://doi.org/10.1155/2022/2454180>.
- Lu, J.X., Tupper, C., dan Murray, J., 2022, Biochemistry, Dissolution and Solubility, [Updated 2022 Sep 12], In: StatPearls [Internet]. Treasure Island (FL): StatPearls, Available from: <https://www.ncbi.nlm.nih.gov/books/NBK431100/>.
- Lynde C.W., 2001, Moisturizers: What They are and How They Work, *Skin Therapy Lett.*, **6**(13): 3-5. PMID: 11813097.
- Mardikasari, S.A., Mallarangeng, A.N.T.A., Zubaydah, W.O.S., dan Juswita, E., 2017, Formulasi dan Uji Stabilitas *Lotion* dari Ekstrak Etanol Daun Jambu Biji (*Psidium guajava* L.) sebagai Antioksidan, *Jurnal Farmasi, Sains, dan Kesehatan*, **3**(2): 28–32.
- McMullen, R.L., Gorcea, M., dan Chen, S., 2014, *Emulsions and Their Characterization by Texture Profile Analysis*, URL: [https://nationaleczema.org/eczema/treatment/moisturizing/](https://www.researchgate.net/figure/A-typical-o-w-emulsion-composition_tbl1_264368215#:~:text=The%20reason%20for%20the%20vast,good%20skin%20spreadability%20%5B6%5D%20., diakses pada 12 Oktober 2023.</p><p>Murdiana, H.E., Kristariyanto, Y.A., Kurniawaty, A.Y., Putri, M.K., dan Rosita, M.E., 2022, Optimasi Formula Sediaan Krim Beras (<i>Oryza Sativa</i> L.) Tipe M/A dengan Variasi Asam Stearat, Setil Alkohol, dan Trietanolamin, <i>Jurnal Farmamedika (Pharmamedica Journal)</i>, 7(2): 55-63.</p><p>Megantara, I.N., Megayanti, K., Wirayanti, R., Esa, I.B., Wijayanti, N.P., Yustiantara, P.S., 2017, Formulasi <i>Lotion</i> Ekstrak Buah Raspberry (<i>Rubus rosifolius</i>) dengan Variasi Konsentrasi Trietanolamin sebagai Emulgator Serta Uji Hedonik Terhadap <i>Lotion</i>, <i>Jurnal Farmasi Udayana</i>, 6(1): 1-5.</p><p>National Eczema Association (NEA), 2023, <i>Moisturizer and Lotion for Eczema: Everything You Need to Know</i>, URL: <a href=), diakses pada 18 September 2023.
- National Institutes of Health (NIH), 2023, Petrolatum, URL: <https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=079433>

[c0-8dfe-946c-e063-6394a90a7898dantype=display](#), diakses pada 18 September 2023.

- Neeraja, S.M., dan Bindhu, B., 2023, Cetyl Alcohol Surface Functionalization: A Strategy for Modulating Electronic Characteristics of Boron Nitride Nanosheets, *Digest Journal of Nanomaterials and Biostructures*, **18**(4): 1515-1527.
- Nigistie, E., Baye, S., Solomon, G., dan Hirut, A., 2022, Evaluation of Oyster Mushroom (*Pleurotus ostreatus*) Production Using Water Hyacinth (*Eichhornia crassipes*) Biomass Supplemented with Agricultural Wastes, *International Journal of Food Science*, vol. 2022, Article ID 9289043, 9 pages, <https://doi.org/10.1155/2022/9289043>.
- Nining, N.S., dan Radjab, W.S., 2019, Stabilitas Fisik Krim M/A Ekstrak Buah Jambu Biji (*Psidium guajava* L.) dengan Variasi Setil alkohol sebagai *Stiffening Agent*, *Journal of Current Pharmaceutical Sciences*, **2**(2): 142-148.
- Noreen, S., Bibi, F., Nouroz, F., Jabeen, S., dan Hayat, A., 2014, Immunomodulatory and Anti-Tumor Activities of Beta-Glucans, *Pakistan Journal of Clinical and Biomedical Research*, **2**(2): 34-38.
- Nurmalasari, D.R., Mardani, A.E., dan Eryani, M.C., 2023, Pengaruh Variasi Konsentrasi Setil Alkohol sebagai *Emulsifying Agent* pada Sediaan *Lotion* Ekstrak Lidah Buaya (*Aloe vera* (L.) Burm. F), *MEDFARM: Jurnal Farmasi dan Kesehatan*, **12**(2): 229-238.
- Pubchem, 2023, *Material Safety Data Sheets*, URL: <https://pubchem.ncbi.nlm.nih.gov/compound/>, diakses pada 15 November 2023.
- Pubchem, 2024, *Material Safety Data Sheets*, URL: <https://pubchem.ncbi.nlm.nih.gov/compound/>, diakses pada 25 Maret 2024.
- Rowe, R. C., P. J. Sheskey, dan M. E. Quinn, 2009, *Handbook of Pharmaceutical Excipients*, Sixth Edition, Pharmaceutical Press, USA.
- Safira, D., dan Sari, D., 2014, Pengaruh Konsentrasi Asam Stearat Terhadap Karakteristik Sediaan dan Pelepasan Krim Kurkumin, *Jurnal Pharmascience*, **4**(1): 14-17.

- Sari, T.W., 2022, Optimasi Komposisi Setil alkohol Sebagai Emulgator dan Gliserin Sebagai Humektan dalam Krim Tabir Surya Ekstrak Bengkuang dengan Metode Desain Faktorial, *Skripsi*, Universitas Sumatera Utara.
- Saryati, D., dan Izzatun, N.Z., 2017, Optimasi Karbopol dan Gliserol sebagai Basis Gel Antiseptik Tangan Ekstrak Etanol Daun Ceremai (*Phyllanthus Acidus* (L.) *Skeels*) dengan Metode *Simplex Lattice Design*, *Journal of Pharmaceutical Science and Clinical Research*, **2**: 35-43.
- Schmitz, C., Auza, L.G., Koberidze, D., Rasche, S., Fischer, R., dan Bortesi, L., 2019, Conversion of Chitin to Defined Chitosan Oligomers: Current Status and Future Prospects, *Mar Drugs*, **17**(8): 452. doi: 10.3390/md17080452. PMID: 31374920; PMCID: PMC6723438.
- Schmid-Wendtner, M. H., dan Korting, H. C., 2006, The pH of the Skin Surface and its Impact on the Barrier Function, *Skin Pharmacology and Physiology*, **19**(6): 296–302, <https://doi.org/10.1159/000094670>.
- Sethi A., Kaur T., Malhotra S.K., dan Gambhir M.L., 2016, *Moisturizers: The Slippery Road*, *Indian J Dermatol.*, **61**(3): 279-87. doi: 10.4103/0019-5154.182427. PMID: 27293248; PMCID: PMC4885180.
- Sifat, N., Lovely, F., Zihad, S.M.N.K., Hossain, Md.G., Shilpi, J.A., Grice, D., Mubarak, M.S., dan Uddin, S.J., 2020, Investigation of the Nutritional Value and Antioxidant Activities of Common Bangladeshi Edible Mushrooms, *Clin Phytosci*, **6**(88), <https://doi.org/10.1186/s40816-020-00235-3>.
- Singh R.P, dan Agarwal. R., 2009, Cosmeceuticals and Silibinin, *Clin Dermatol.*, **27**(5): 479-84. doi: 10.1016/j.clindermatol.2009.05.012. PMID: 19695480; PMCID: PMC2767273.
- Sukmawati, A., Laeha, Ms.N., dan Suprpto, S., 2017, Efek Gliserin sebagai Humectant Terhadap Sifat Fisik dan Stabilitas Vitamin C dalam Sabun Padat, *PHARMACON: Jurnal Farmasi Indonesia*, **14**(2): 40-47.
- Sukmawati, N.M.A., Arisanti, C.I.S., dan Wijayanti, N.P.A.D., 2013, Pengaruh Variasi Konsentrasi PVA, HPMC, dan Gliserin Terhadap Sifat Fisika Masker Wajah Gel *Peel Off* Ekstrak Etanol 96% Kulit Buah Manggis (*Garcinia mangostana* L.), Universitas Udayana, Bali.
- Synytsya A., Mičková K., Synytsya A., Jablonsky, I., Spevacek, J., Erban, V., Kovarikova, E., dan Copikova, J., 2009, Glucans from Fruit Bodies of Cultivated Mushrooms *Pleurotus ostreatus* and *Pleurotus eryngii*: Structure

and Potential Prebiotic Activity, *Carbohydrate Polymers*, **76**(4): 548-556.
DOI: 10.1016/j.carbpol.2008.11.021.

- Tran, H.H., Nguyen, T.H., Tran, T.T., Vu, H.D., Nguyen, H.M.T., 2021, Structures, Electronics Properties, and Interactions of Cetyl Alcohol with Cetomacrogol and Water: Insights from Quantum Chemical Calculations and Experimental Investigations, *ACS Omega*, **6**: 20975-20983.
- Tranggono, R. I., dan Latifah, F., 2007, *Buku Pegangan Ilmu Pengetahuan Kosmetik*, PT Gramedia, Jakarta.
- Ulaen, S. P. J., Banne, Y., dan Suatan, R.A., 2012, Pembuatan Salep Anti Jerawat dari Ekstrak Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb.), *Jurnal Ilmiah Farmasi*, **3**: 45-49.
- Varothai, S., Nitayavardhana S., dan Kulthanan, K., 2013, Moisturizers for Patients with Atopic Dermatitis, *Asian Pac J Allergy Immunol*, **31**: 91-8.
- Vetter, J., 2007, Chitin Content of Cultivated Mushrooms *Agaricus bisporus*, *Pleurotus ostreatus*, and *Lentinula edodes*, *Food Chemistry*, **102**(1): 6-9.
- Wiardani, I., 2010, Budi Daya Jamur Konsumsi: Menangguk Untung dari Budidaya Jamur Tiram dan Kuping, Lili Publisher, Yogyakarta.
- Widiyati, E., Setiaji, A.H.B., Suharto, T.E., dan Triyono, 2015, The Effect of Stearic Acid and Triethanolamine (TEA) on Physical and Chemical Properties of Cosmetic Emulsion using Coconut Oil as Raw Material, *International Journal of Applied Chemistry*, **11**(3): 343-349.
- Wolverton, S.E., 2001, *Comprehensive Dermatologic Drug Therapy*, WB Saunders, Philadelphia.
- Wu, Y., Choi, M.H., Li, J., Yang, H., dan Shin, H.J., 2016, Mushroom Cosmetics: The Present and Future, *Cosmetics*, **3**(3): 22, <https://doi.org/10.3390/cosmetics3030022>.