

DAFTAR PUSTAKA

- Allen, L. V., 2002, *The Art, Science and Technology of Pharmaceutical Compounding*, Second Edition, American Pharmaceutical Association, Washington D.C.
- Allen, L. V. & Ansel, H. C., 2014, *Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems*, Tenth Edition, Lippincott Williams & Wilkins, Philadelphia.
- Alvarez-Nunez, F.A & Medina, C., 2009, *Glyserin*, dalam Rowe, R. C., Shesky, P. J., & Owen, S. C., *Handbook of Pharmaceutical Excipients*, Sixth Edition, 312, Pharmaceutical Press, USA.
- Anonim, 1979, *Farmakope Indonesia*, Edisi III, Departemen Kesehatan RI, Jakarta.
- Anonim, 1988, Final Report on The Safety Assesment of DMDM Hydantoin, *J. Am. Coll. Toxicol.*, 3: 245 - 277
- Anonim, 1985, *Formularium Kosmetika Indonesia*, Direktorat Jenderal Pengawasan Obat dan Makanan, Jakarta.
- Ansel, H. C., 1989, *Pengantar Bentuk Sediaan Farmasi*, Edisi IV, UI Press, Jakarta.
- Arizona, M. & Zulkarnain, A.K., 2018, Optimasi Formula dan Uji Aktivitas Secara In Vitro Lotion O/W Ekstrak Etanolik Rimpang Temu Mangga (Curcuma Mangga Val. dan van Zijp) sebagai Tabir Surya, *Majalah Farmaseutik*, Vol. 14, 1: 29 – 41.
- Aulton, M.E., 2007, *Pharmaceutics the Design and Manufacture of Medicines*, Third Edition, Churchill Livingstone, New York.
- Balakhrisnan, K., & Narayanaswamy, 2011, Botanicals as Sunscreens: Their Role in the Prevention of Photoaging and Skin Cancer, *Int. J. Cosmet. Sci.*, 1(1): 1-12.
- Bambal, V., & Mishra, M., 2014, Evaluation Of In Vitro Sunscreen Activity of Herbal Cream Containing Extract of Curcuma Longa And Butae Monosperma, *World. J. Pharm. Res.*, Volume 3, Issue 2, 3026-3035.
- Banner M.C., 2009, *Lanolin*, dalam Rowe, R. C., Shesky, P. J., & Owen, S. C., *Handbook of Pharmaceutical Excipients*, Sixth Edition, 466, Pharmaceutical Press, USA.
- Barel, A.O., Paye, M. & Maibach, H.I., 2001, *Handbook of Cosmetic Science and Technology*, Informa Health Care, USA.
- BPOM, 2014, *Peraturan Kepala Badan Pengawasan Obat dan Makanan RI Nomor 7 Tahun 2014 tentang Pedoman Uji Toksisitas Nonklinik Secara In Vivo*, BPOM RI, Jakarta.
- Cristina, M.P.P., Mansur, R., Guamiraez, S. & Santos, P.E, 2016, In Vitro and In Vivo Evaluation of Efficacy and Safety of Photoprotective Formulations Containing Antioxidants Extracts, *Brazilian. J. Pharm. Sci.*, 26:251 – 258.



- Departemen Kesehatan Republik Indonesia, 1985, *Formularium Kosmetika Indonesia*, Direktorat Jenderal Pengawasan Obat dan Makanan, Jakarta.
- Dubash, D. & Shah, U., 2009, *Water*, dalam Rowe, R. C., Shesky, P. J. & Owen, S. C., *Handbook of Pharmaceutical Excipients*, Sixth Edition, 766, Pharmaceutical Press, USA.
- Goskonda, S.R., 2009, *Triethanolamine*, dalam Rowe, R. C., Shesky, P. J. & Owen, S. C., *Handbook of Pharmaceutical Excipients*, Sixth Edition, 754, Pharmaceutical Press, USA.
- Jellinek, J. & Stephan, D.R., 1970, *Formulation and Function of Cosmetics*, diterjemahkan oleh G.L. Fenton, 323-325, John Wiley & Sons Inc., USA.
- Johnson, R. & Steer, R., 2006, *Methyl Paraben*, dalam Rowe, R. C., Shesky, P. J., and Owen, S. C., *Handbook of Pharmaceutical Excipients*, Fifth Edition, 466, Pharmaceutical Press, USA.
- Jr. Allen, L.V., 2009, *Stearic Acid*, dalam Rowe, R. C., Shesky, P. J., and Owen, S. C., *Handbook of Pharmaceutical Excipients*, Sixth Edition, 697, Pharmaceutical Press, USA.
- Kanani, N., Rochmat, A., Pahlevi, R. & Rohani F.Y., 2017, Pengaruh Temperatur Terhadap Nilai Sun Protecting Factor (SPF) Pada Ekstrak Kunyit Putih Sebagai Bahan Pembuat Tabir Surya Menggunakan Pelarut Etil Asetat dan Metanol, *J. Integrasi. Proses*, Vol. 6, 3: 143 – 147.
- Khelker, T., Haque, N. & Agrawal, A., 2017, Ultraviolet Protection potential of Curcuma longa L. and Citrus sinensis (L.) Osbeck, *Research. J. Pharm. Tech.*, 10: 12.
- Lachman, L., Lieberman, H.A. & Kanig, J. L., 2008, *Teori dan Praktek Farmasi Industri*, diterjemahkan oleh Siti Suyatmi Ed. HI, Universitas Indonesia Press, Jakarta.
- L. Beyere, S. Yarasi & G. R. Loppnow, 2003, Solvent effects on sunscreen active ingredients using Raman spectroscopy, *J. Raman. Spectrosc*, 34: 743–750.
- Louise E., Agrapidis-Palolympis, Robert, A.N., 1987, The Effect of Solvents on The Ultraviolet Absorbance of Sunscreen, *J. Soc. Cosmet. Chem*, 38: 209 – 221 .
- Lu, F.C., 1995, *Toksikologi Dasar: Asas, Organ, Sasaran dan Penilaian Resiko*, Edisi Kedua, UI Press, Jakarta.
- Lucas, R., McMichael, T., Smith, W., & Armstrong, B., 2006, *Solar Ultraviolet Radiation: Global Burden of Disease From Solar Ultraviolet Radiation*, Environmental Burden of Disease, World Health Organization, Geneva.



- Mansur, J.S., Breder, M.N.R., Mansur, M.C.A. & Azulay, R.D, 1986, Determination of sun protecting factor for spectrophotometry, *An. Bras. Dermatol*, 61: 121 – 124.
- Marchaban, Fudholi, A., Saifullah, T.N.S., Martien, R., Kuswahyuning, R., Bestari, A.N. & Indrayan, B., 2015, *Seri Buku Petunjuk Praktikum Teknologi Farmasi: Teknologi Formulasi Sediaan Cair Semi Padat*, Laboratorium Teknologi Farmasi Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Masaki, 2010, Role of Antioxidant in The Skin: Anti-Agin Effects, *J. Dermatol. Sci*, 58: 85 – 90.
- Masyitoh, Anisah N., 2019, Optimas Formula Tetrahidropentagamavunon-5 (THPGV-5) Dengan Kombinasi Tritanolamin-Stearat dan Setil Alkohol Serta Uji Aktivitas Formula Optimum Sebagai Antioksidan, *Skripsi*, Universitas Gadjah Mada, Yogyakarta.
- Muhamed, I.A., Ahmad, W.A.N.W., Ramli, N.S & Ghafar N.A., 2019, Antimicrobial and antioxidant property of *Curcuma longa* Linn., *Int. J. Basic. Clin. Pharmacol*, 8(11): 2383 – 2388.
- National Center for Biotechnology Information, PubChem Database, *DMDM Hydantoin*, <https://pubchem.ncbi.nlm.nih.gov/compound/DMDM-Hydantoin>, 20 Mei 2020
- National Center for Biotechnology Information, PubChem Database, *Lanolin*, <https://pubchem.ncbi.nlm.nih.gov/compound/Lanolin>, 20 Mei 2020
- Oz, M.C. & M.F. Roizen, 2008, *Being Beautiful: Sehat dan Cantik Luar Dalam ala Dr. Oz*, Mizan Publishing, Bandung.
- Pissavini, M., L. Ferrero, V. Alaro, U. Heinrich, H. Tronnir, T.D. Kockott, D. Lutz, V. Tornier, M. Zambonin & M. Melonin, 2003, Determination of the in vitro SPF, *Cosmet. Toiletries*, 118: 63 – 72.
- Pratama, A.W. & Zulkarnain, A.K., 2015, Uji SPF in Vitro dan Sifat Fisik Beberapa Produk Tabir Surya Yang Beredar Di Pasaran, *Majalah Farmaseutik*, Vol. 11 No. 1, 279 – 280.
- Pujiastuti, Anastashia & Kristiani, Monica, 2019, Formulasi dan Uji Stabilitas Mekanik Hand and Body Lotion Sari Buah Tomat (*Licopersicon esculentum* Mill.) sebagai Antioksidan, *Indones. J. Pharm*, 16: 45.
- Rasheed, A., Sharma, S.N., Mohanalakshmi, S. & Ravichandran, V., 2012, Formulation, Characterization and in Vitro Evaluation of Herbal Sunscreen Lotion, *Orient. Pharm. Exp. Med*, 12:241–246.
- Rowe, R.C., Sheskey, P.J. & Quinn, M.E., 2009, *Handbook of Pharmaceutical Excipients*, 6th Ed., Pharmaceutical Press and American Pharmacists Association, USA.



- Suwanti, I.S., 2015, Sintesis dan Uji Antioksidan Senyawa Tetrahidropentagamavunon-5 dengan Metode Penangkapan Radikal DPPH dna Reduksi Ion Ferri, *Tesis*, Universitas Gadjah Mada, Yogyakarta.
- Sayre, R. M., Agin, P. P., Levee, G. J., & Marlowe, E., 1979, *Comparison of In Vivo and In Vitro Testing of Sunscreening Formulas*, Photochemical & Photobiology., 29, 559-566 cit. Dutra, E.A. Oliveria, D.A.G.D.C., Kedor Hackmann, E.R.M., & Santoro, M.I.R.M, 2004, Determenination of Sun Protecting Factor (SPF) of Sunscreen by Ultraviolet Spectrofotometry, *Revista Brasileira de Ciencias farmaceuticas*, 40 (3), 381 – 385.
- Schalka, S. & Vitor, M.S.D.R., 2011, Sun Protection Factor: Meaning and Controversies, *An. Bras. Dermatol.*, 86(3): 507 – 515.
- Schanno, R.J., Westlund, J.R. & Foelsch, D.H., 1980, Evaluation of 1,3-dimethylol-5,5-dimethyl hydantoin as A Cosmetic Preservative, *J. Soc. Cosmet. Chem*, 31: 85 – 96.
- Simbara, A., 2009, Sintesis dan Uji Aktivitas Antioksidan Senyawa Tetrahidropentagamavunn-0, *Tesis*, Fakultas Farmasi UGM, Yogyakarta.
- Tranggono, R.I. & Latifah, F., 2007, *Buku Pegangan Ilmu Pengetahuan Kosmetik*, PT. Gramedia Pustaka Utama, Jakarta.
- Unvala, H.M., 2009, *Cetyl Alcohol*, dalam Rowe, R. C., Shesky, P. J. & Owen, S. C., *Handbook of Pharmaceutical Excipients*, Sixth Edition, 155, Pharmaceutical Press, USA.
- Venkatesan, P. & Rao, M. N. A., 2000, Structure-Activity Relationship for the Inhibition Peroxidation and The Scavenging of Free Radical by Synthetic Symmetrical Curcumin Analogues, *J. Phamr. Pharmacol.*, 52: 1123 – 1128.
- Wang, S.Q., Stanfield, M.S. & Osterwalder, U., 2008, In Vitro Assessment of UV A Protection by Populer Sunscreen Available in the United States, *J. Am. Dermatol*, 59: 934 – 942.
- Warsi, W., Sardjiman, S & Riyanto, S., 2018, Synthesis and Antioxidant Activity of Curcumin Analogues, *J. Chem. Pharm. Res.*, 10(4): 1 – 9.
- Wasiaatmaja, S.M., 1997, *Penuntun Ilmu Kosmetik Medik*, UI Press, Jakarta.
- Wastuwidya, Gading, 2017, Pengaruh Variasi Kadar THPGV-0 (Tetrahidropentagamavunon-0) dalam Sediaan Krim Terhadap Efek Iritasi Akut Dermal dan Nilai SPF (Sun Protecting Factor), *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Wilkinson, J. B. & Moore, R.J., 1982, *Harry's Cosmeticology* Seventh Edition, Chemical Publishing, New York.
- Wolf, R., D. Wolf, P. Morganti, & V. Ruocco, 2001, The Spectrophotometric Analysis and Modelling of Sucscreens, *J. Chem. Educ*, 74: 99 – 102.



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GABRIELLA M D P, Dr. Ritmaleni, S.Si ; apt. Angi Nadya Bestari, M.Sc

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Wulandari, Tia, 2017, Pengaruh Konsentrasi Tetrahidropentagamavunon-0 (THPGV-0) Terhadap Nilai Sun Protecting Factor (SPF) dan Efek Iritasi Akut Dermal Emulgel Thpgv-0, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

Yuliani, S.H., 2010, Optimasi Kombinasi Campuran Sorbitol, Gliserol, dan Propilenglikol dalam Gel Sunscreen Ekstrak Etanol Curcuma manga, *Skripsi*, Fakultas Farmasi, Universitas Sanata Dharma, Yogyakarta.

Yulianti, E., Adelsa, A. & Putri, A., 2015, Penentuan nilai SPF (Sun Protecting Factor) Ekstrak Etanol 70% Temu Mangga (Curcuma manga) dan Krim Ekstrak Etanol 70% Temu Mangga (Curcuma manga) secara In Vitro Menggunakan Metode Spektrofotometri, *Majalah Kesehatan FKUB*, 2: 1.

Zeman, Gary, ScD., CHP., 2007, *Ultraviolet Radiation*,
<http://hps.org/hpspublications/articles/uv.html>, 24 Oktober 2019.