

## DAFTAR PUSTAKA

- Abdurahman, H.N. & Rosli, M.Y., 2006, Stability Investigation of Water in Crude Oil Emulsion, *Journal of Applied Science*, **6**, 2895-2900.
- Agoes, G., 2012, *Seri Farmasi Industri 7 : Sediaan Farmasi Likuida-Semisolida*, 34, Penerbit ITB, Bandung.
- Alissya, R., Lisawati & Maimunah, Y., 2008, Aktivitas Antioksidan Krim Ekstrak Sari Tomat (*Solanum Lycopersicum L.*), *Traditional Medicine Journal*, **18**(3), 132-140.
- Allen, L.V., 2012, *The Art, Science, and Technology of Pharmaceutical Compounding*, 4<sup>th</sup> Ed, 282, American Pharmacists Association, Washington DC.
- Anief, M., 2007, *Apa yang Perlu Diketahui Tentang Obat*, 27, Gadjah Mada University Press, Yogyakarta.
- Anonim, 1983, *Sunscreen For Human Use*, 111, Council Directive, Europe.
- Anonim, 1985, *Formularium Kosmetik Indonesia*, Departemen Kesehatan RI, Jakarta.
- Anonim, 1995, *Farmakope Indonesia*, Edisi IV, 690, Departemen Kesehatan Republik Indonesia, Jakarta.
- Anonim, 2010, *Design-Expert*, <http://www.nwasoft.com/desexp.htm>, 29 April 2016.
- Anonim, 2013, *Sunscreen Drug Products for Over-The-Counter Human Use Subchapter D*, 201, USA FDA Department of Health and Human Services, USA.
- Armstrong, N.A. & James, K.C., 1996, *Pharmaceutical Experimental Design and Interpretation*, 132, Taylor and Francis Group, London.
- Benson, H., 2007, Sunscreen : Efficacy, Skin Penetration and Toxicological Aspects, dalam Walters, K., Roberts, M., (Eds.), *Dermatologic, Cosmeceutic, and Cosmetic Development*, 419-435, Informa Healthcare, USA.
- Betageri, G. & Prabhu, S., 2002, Semisolid Preparation, dalam Swarbrick, J., Boylan, J.C., (Eds.), *Encyclopedia of Pharmaceutical Technology*, 2<sup>nd</sup> Ed., 2436,2453-2456, Marcel Dekker, Inc., New York.
- Bolton, S., 2004, *Pharmaceutical Statistics, Practical and Clinical Applications*, 4<sup>rd</sup> Ed., 326-352, Marcel Dekker, Inc., New York.

- Cawthray, J.F., 2009, *UV A Chemical Filters : A Systematic Study*, 126-131, University of Adelaide Department of Chemistry, Australia.
- Correa, B.A.M., 2012, Molecular Modelling Studies of the Structural, Electronic, and UV Absorption Properties of Benzophenone Derivatives, *The Journal of Physical Chemistry A*, **116**, 10927-10933.
- Derick, R., 2003, Fat Crystals Emulsions Stability, a Review, *Food Research Internasional Journal*, **33**, 3-14.
- Diaz-Cruz, M.S., Llorca, M. & Barcelo, D., 2008, Organic UV Filtes and Their Photodegradates, Metabolites, and Disinfection By-Products in the Aquatic Environment, *Trends in Analytical Chemistry*, **27**, 873-887.
- Djuanda, A., 2003, *Ilmu Penyakit Kulit dan Kelamin*, 137-140, UI-press, Jakarta.
- Draelos, Z.D. & Thaman, L.A., 2006, *Cosmetic Formulation of Skin Care Product*, 75, 135-137, 157-161, Taylor and Francis Group, New York.
- Dutra, E.A., Oliveira, D.A., Hackmann, E.R. & Santoro, M.I., 2004, Determination of Sun Protecting Factor (SPF) of Sunscreen by Ultraviolet Spectrophotometry, *Brazilian Journal of Pharmaceutical Sciences*, **40**(3), 381-385.
- El-boury, S., Couteau, C., Boulande, L., Paparis, E. & Coiffard, L.J.M., 2007, Effect of the Combination of Organic and Inorganic Filters on the Sun Protection Factor (SPF) Determined by In Vitro Method, *International Journal of Pharmaceutics*, **340**, 1-5.
- Faurschou, A. & Wulf, H., 2007, The Relation Between Sun Protection Factor and Amount of Sunscreen Applied In Vivo, *British Journal of Dermatology*, **156**, 716-719.
- Fitzpatrick, T.B. & Freedberg, I.M., 2008, *Fitzpatrick's dermatology in General Medicine*, 7<sup>th</sup> Ed., 52, McGraw-Hill Companies Inc., New York.
- Gad, S.C. & Chengelis, C.P., 1997, *Acute Toxicology Testing*, 2<sup>nd</sup> Ed., 87, Academic Press, United States.
- Gennaro, A.R., 1995, *Remington's The Science and Practice of Pharmacy*, 19<sup>th</sup> Ed., 55-56, Mack Publishing Company, Easton Pennsylvania.
- Gonzalez, H., Abrot, A., Larko, O. & Wennberg, A.M., 2006, Percutaneous Absorption of the Sunscreen Benzophenone-3 after Repeated Whole-Body Applications, with and without Ultraviolet Irradiation, *British Journal of Dermatology*, **154**(2), 337-340.
- Gonzalez, H., Wahlberg, N.T., Stromdahl, B., Juzeniene, A., Moan, J., Larko, O. & Wennberg, M., 2007, Photostability of Commercial Sunscreens Upon

Sun Exposure and Irradiation by Ultraviolet Lamps, *BMC Dermatology*, **7**(1), 1-9.

Groves, G.A., Agin, P.P. & Sayre, R.M., 1979, In Vitro and In Vivo Methods to Define Sunscreen Protection, *Journal of Dermatology*, **20**, 112-119.

Hadinoto, I., Soeratri, W. & Meity, C.T., 2000, Pengaruh pH terhadap Efektivitas Sediaan Tabir Matahari dengan Bahan Aktif Etil Heksil p-Metoksinamat dan Oksilbenzen dalam Basis Hidrofilik Krim secara In Vitro, In *Kongres Ilmiah XIII Ikatan Sarjana Farmasi Indonesia, Kumpulan Makalah*, Jakarta.

Hamdani, S., 2011, *Tabir Surya Mengurangi Efek Radiasi*, <http://catatankimia.com/catatan/tabir-surya-mengurangi-efek-radiasi.html>, 10 oktober 2015.

Heckman, C.J. & Coups, E.J., 2011, Correlates of Sunscreen Use Among High School Students: a Cross Sectional Survey, *BMC Public Health*, **11**(679), 1-7.

Hidayatu, H.S. & Karim, A.Z., 2013, Stabilitas Fisik dan Aktivitas Krim W/O Ekstrak Etanolik Buah Mahkota Dewa (Phaleria Macrocarph(scheff.)Boerl.) Sebagai Tabir Surya, *Traditional Medicine Jurnal*, **18**(2), 109-117.

Hollick, M.F., Maclaughlin, J.A., Clark, M.B., Hollick, S.A., Anderson, R.R., Blank, I.H., Parrish, J.A. & Elias, P., 1980, Photosynthesis of Previtamin D3 in Human Skin And the Physiologic Consequences, *Science*, **210**, 203-205.

Hussein, M.R., 2005, Ultraviolet Radiation and Skin Cancer: Molecular Mechanisms, *Journal of Cutaneous Pathology*, **3**, 191-205.

Issa, T.S., Philippe, B. & Raymond, H., 2000, Improved Kinetic Parameter Estimation in pH-Profile Data, *International Journal of Pharmaceutics*, **198**, 39-49.

Jellinek, J.S., 1970, *Formulation and Function of Cosmetics*, 26, Wiley-Interscience, New York.

Kanitakis, J., 2002, Anatomy, Histology and Immunohistochemistry of Normal Human Skin, *European Journal of Dermatology*, **12**(4), 390-401.

Kibbe, A.H., 2006, Povidone, dalam Rowe, R.C., Sheskey, P.J., Owen, S.C., (Eds.), *Handbook of Pharmaceutical Excipients*, 5<sup>th</sup> Ed., 611-612, Pharmaceutical Press and American Association, USA.

Kim, S.M., Oh, B.H., Lee, Y.W., Choe, Y.B. & Ahn, K.J, 2010, The Relation Between the Amount of Sunscreen Applied and the Sun Protection

Factor in Asian Skin, *Journal of the American Academy Dermatology*, **62**(2), 218-222.

Kullavanijaya, P. & Lim, H., 2005, Photoprotection, *Journal of the American Academy of Dermatology*, **52**, 937-958.

Laranjeira, M.T., Lima, F.D., Oliveira, S.C., Ferreira, V.S., Oliveira, R.T.S., 2011, Analytical Determination of Benzophenone-3 in Sunscreen Preparations Using Boron-Doped Diamond Electrodes, *American Journal of Analytical Chemistry*, **2**, 383-391.

Lee, A. & Kaplan, M.D., 1992, Suntan, Sunburn, and Sun Protection, *Journal of Wilderness Medicine*, **3**, 174-175, 179.

Magdy, I.M., 2004, Optimization of Chlophensin Emulgel Formulation, *The American Association of Pharmaceutical Scientists Journal*, **6**, 1-7.

Marchaban & Saifullah, T.N.S., 2014, *Petunjuk Praktikum Formulasi dan Teknologi Sediaan Cair dan Semi Padat*, 27-28, Laboratorium Teknologi Farmasi Fakultas Farmasi UGM, Yogyakarta.

Martini, 2001, *Fundamental of Anatomy and Physiology*, 5<sup>th</sup> Ed., 50-56, Prentice Hall, New Jersey.

Martin, A., Swarbrick, J. & Cammarata, A., 1993, *Farmasi Fisik 2*, Edisi II, diterjemahkan oleh Yoshita, 1079-1082, UI-Press, Jakarta.

Matousek, J.L, Campbell, K.L., Kakoma, I., Solter, P.F. & Schaeffer, D.J., 2003, Evaluation of the Effect of pH on In Vitro Growth of Malassezia Pachydermatis, *Canadian Journal of Veterinary Research*, **67**, 56-59.

Mekkawy, A.I., Fathy, M. & El-Shanawany, S., 2013, Study of Fluconazole Release from O/W Cream and Water Soluble Ointment Bases, *British Journal of Pharmaceutical Research*, **3**(4), 686-696.

Melquiades, F.L., Ferreira, D.D., Appoloni, C.R. & Lopes, F., 2008, Titanium Dioxide Determination in Sunscreen by Energy Dispersive X-ray Fluorescence Methodology, *Analytica Chimica Acta*, **613**, 135-143.

Mitsui, T., 1997, *New Cosmetic Science*, 67-69, Elsevier Science, Netherlands.

Mollet, H. & Grubenmaan, A., 2001, *Formulations Technology Emulsions Suspensions, Solid Forms*, 44-45, Willey-Vch, Toronto.

Nakagawa, H., 2001, *Symphonia Medica Nursing in Dermatological Disorders*, 3, Nakayama-Shoten, Nakayama.

Ningrum, A.A., 2011, Optimasi Proses Pencampuran Hand Body Lotion dengan Kajian Kecepatan Putar Mixer, Suhu, dan Waktu Pencampuran

Menggunakan Metode Desain Faktorial, *Skripsi*, Universitas Sanata Dharma, Yogyakarta.

Norval, M., 2006, The Mechanisms and Consequences of UV-Induced Immunosuppression, *Prog Biophys Mol Biol*, **92**(1), 108-118.

Osterwalder, U. & Herzog, B., 2009, Sun Protection Factor : World Wide Confusion, *British Journal of Dermatology*, **161**(3), 13-24.

Pichot, R., 2010, Stability and Characterisation of Emulsions in the Presence of Colloidal Particles and Surfactants, *Tesis*, University of Birmingham, Columbia.

Poskitt, E.M., Cole, T.J. & Lawson, D.E., 1979, Diet, Sunlight, and 25-hydroxy Vitamin D in Healthy Children and Adults, *British Medicine*, **1**, 221.

Rachmawati, A.N., 2012, Optimasi Tablet Disperible Ekstrak Daun Jambu Biji (*Psidium guajava* L.) dengan Kombinasi Bahan Penghancur Croscamellose Sodium dan Sodium Starch Glycolate, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

Rai, R. & Srinivas, C.R., 2007, Photoprotection, *Indian Journal of Dermatology, Venereology and Leprology*, **73**(2), 73-79.

Rigel, D.S., Robinson, J.K. & Ross, M., 2005, *Cancer of the Skin*, 88-89, W.B. Saunders, Philadelphia.

Rowe, R.C., Sheskey, P.J. & Quinn, M.E., 2009, *Pharmaceutical Excipients*, 6<sup>th</sup> Ed., 778-780, 481,675, Pharmaceutical Press, London.

Salvador, A. & Chisvert, A., 2005, A Critical Survey on UV Filters Determination, *Analytica Chimica Acta*, **537**, 1-14.

Samsudin, D.H., 2007, Pengaruh Penambahan Ekstrak Perasan Buah Ketimun (*Cucumis Sativus*, L) Terhadap Aktivitas Tabir Surya Oksibenzon secara In Vitro, *Thesis*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

Sastrohamidjojo, H., 1991, *Spektroskopi*, 46, Liberty, Yogyakarta.

Schirripa, V., 2010, Prevention of Skin Damage to Solar Radiation: Sunscreens, *de Senectute: Age and Health Forum BMC Geriatrics*, **10**(1), 46.

Schnabel, W. & Kiwi, J., 1978, In *Aspects of Degradation and Stabilization of Polymers*, 31, Elsevier Science Publishing Company, Inc., Amsterdam.

Sekardani, N.I., 2011, Stabilitas Fisik Sediaan Krim Pati Bengkuang (*Pachyrhizus Erosus* (L) Urban) dan Aktivitasnya Sebagai Tabir Surya pada Mencit, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

- Serpone, N., Dondi, D. & Albini, A., 2007, Inorganic and Organic UV Filters: Their Role and Efficacy in Sunscreens and Suncare Products, *Inorganica Chimica Acta*, **360**, 794.
- Setiadi, 2007, *Konsep dan Penulisan Riset Keperawatan*, 29, Graha Ilmu, Yogyakarta.
- Shaath, N.A., 1990, The Chemistry of Sunscreens, dalam Lowe, N.J., Shaath, N.A., (Eds.), *Sunscreens : Development, Evaluation, and Regulatory Aspects*, Marcel Dekker, Inc., New York.
- Sheu, M.T., Lin, C.W., Huang, M.C. & Shen, C.H., 2003, Correlation of In vivo and In vitro Measurements of Sun Protection Factor, *Journal of Food and Drug Analysis*, **11**(2), 128-132.
- Shovyana, H.H., 2011, Stabilitas Fisik dan Aktivitas Krim W/O Ekstrak Etanolik Buah Mahkota Dewa [*Phaleria macrocarpa* (Scheff.) Boerl] Sebagai Tabir Surya pada Mencit, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Sinko, P.J., 2006, *Martin's Physical Pharmacy and Pharmaceutical Science: Physical Chemical and Biopharmaceutical Principle in the Pharmaceutical Science*, 5<sup>th</sup> Ed., 78-79, Lippicott William and Wilkins, Philadelphia.
- Sliney, D.H., 2001, Photoprotection of the Eye – UV Radiation and Sunglasses, *Journal Photochemical & Photobiology*, **64**, 166-175.
- Smaoui, S., Hlima, H.B., Chobba, I.B. & Kadri, A., 2013, Development and Stability Studies of Sunscreen Cream Formulations Containing Three Photoprotective Filters, *Arabian Journal of Chemistry*, **6**(1), 1-7.
- Soebaryo, R.W. & Jacob, T.N.A., 2007, Ilmu Penyakit Kulit dan Kelamin, dalam Djuanda, A., (Ed.), *Fotobiologi*, 5<sup>th</sup> Ed., 177-181, UI-Press, Jakarta.
- Srivastava, P., 2006, Excipients for Semisolid Formulations, In *Excipients Development for Pharmaceutical, Biotechnology, and Drug Delivery Systems*, 197-224, Informa Healthcare, United Kingdom.
- Sulaiman, T.N. & Kuswahyuning, R., 2008, *Teknologi dan Formulasi Sediaan Semipadat*, 16-17, Pustaka Laboratorium Teknologi Farmasi Fakultas Farmasi UGM, Yogyakarta.
- Suwarni, 2012, Sifat-Sifat Fisikokimia dan Stabilitas Sediaan Krim Tabir Surya Benzofenon dan Sinamat, *Thesis*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Suzuki, T., Kitamura, S., Khota, R., Sugihara, K., Fujimoto, N., Ohta, S., 2005, Estrogenic and Antiandrogenic Activities of 17 Benzophenone



Derivatives Used as UV Stabilizers and Sunscreens. *Toxicology and Applied Pharmacology*, **203**(1), 9-17.

- Swarbrick, J. & Boylan, J., 2002, *Encyclopedia of Pharmaceutical Technology*, 2<sup>nd</sup> Ed., 133-138, Marcel Dekker Inc., New York.
- Swarbrick, J., Rubino, J.T. & Rubino, O.P., 2000, Coarse Dispersions, dalam Gennaro, A.R., (Ed.), *Remington: The Science and Practise of Pharmacy*. 20<sup>th</sup> Ed., 102-103, Lippincott Williams & Wilkins, Philadelphia.
- Swinyard, E.A. & Lowenthal, W., 1990, Pharmaceutical Nessesities, In *Remington's Pharmaceutical Sciences*, 18<sup>th</sup> Ed., 120-122, Mack Publishing Company, Pennsylvania.
- Tian, Y., Liu, W., Niu, T., Dai, C., 2014, The Injury and Cumulative Effects on Human Skin by UV Exposure from Artificial Fluorescence Emission, *Photochemistry and Photobiology*, **90**(6), 1433-1438.
- Tranggono, R.I. & Latifah, F., 2007, *Buku Pegangan Ilmu Pengetahuan Kosmetik*, 37-41, Gramedia Pustaka Utama, Jakarta.
- Voight, R., 1994, *Buku Pelajaran Teknologi Farmasi*, diterjemahkan oleh Soendani Noeroto, Edisi V, 382, 398-399, 441-442, UGM Press, Yogyakarta.
- Wasitaatmaja, S.M., 1997, *Penuntun Ilmu Kosmetik Medik*, 91, UI Press, Jakarta.
- Wilkinson, J.B. & Moore, R.J., 2000, *Harry's Cosmeticology*, 8<sup>th</sup> Ed., 231, 239-241, George Godwin, London.
- Willis, I. & Cylus, L., 1977, UV A Erythema in Skin: Is It a Sunburn?, *J Invest Dermato*, **9**, 68,128.
- Winfield, A.J. & Richards, R.M.E., 2004, *Pharmaceutical Practice*, 3<sup>rd</sup> Ed., 77-79, Churchill Livingstone, Edinburgh.
- Yahendri & Yenny, S.W., 2012, Berbagai Bentuk Sediaan Topikal Dalam Dermatologi, *Laporan Penelitian*, Fakultas Kedokteran Universitas Andalas, Padang.