

DAFTAR PUSTAKA

- Abou Arab AA., Abu Salem FM., & Abou Arab EA., 2011, Physicochemical Properties Of Natural Pigments (Anthocyanin) Extracted From Roselle Calyces (*Hibiscus Subdariffa*), *J.of American Science*, 7(7), 445-456.
- Anonim, 2004, Cara Uji Derajat Keasaman (pH), Badan Standardisasi Nasional, Jakarta.
- Anonim, 1994, *The Pharmaceutical Codex*, 12 thed, 82 – 92, The Pharmaceutical Press, London.
- Agustina, A, 2007, Optimasi Media Pertumbuhan Rosella, *Tabloid Peluang Usaha*, Jakarta.
- APCC, 2009, APCC Standards for virgin coconut oil, <http://www.apccsec.org/document/VCNO.PDF>, 2 Februari 2015.
- Attwood, D and Florence, A. T., (2008), *Fast Track, Physical Pharmacy*, Cornwall, Pharmaceutical Press.
- Azeem, A., Rizwan, M., Ahmad, F.J., Iqbal, Z., Khar, R.K., Aqil, M., Talegaonkar, S., 2009, Nanoemulsion Components Screening and Selection: a Technical Note, *AAPS PharmSciTech.*, **10**(1), 69-76.
- Bali, V., Ali, M., Ali, J., 2010, Study of Surfactant Combinations and Development of a Novel Nanoemulsion for Minimising Variations in Bioavaibility of Ezetimibe, *Colloids Surf B Biointerfaces* **76**, 410-420.
- Benita, S., 2006, *Microencapsulation: Methods & Industrial Applications Vol 158*, 2nd Edition, 2-5.-33.
- Boer, Y., 2000, Uji Aktivitas Antioksidan Ekstrak Kulit Buah Kandis (*Garcinia parvifolia* Miq), *Jurnal Matematikadan IPA 1*, (1) hal 26
- Bolton, S., 1997, *Pharmaceutical Statistics Practical and Clinical Applications*, 3rd Edition, 610, Marcel Dekker Inc, New York.
- Bolton, S., & Bon, C., 2004, *Pharmaceutical Statistics Vol. 135*, 265-281, Marcell Dekker Inc., New York.
- Catrien, 2009, *Pengaruh Kopigmentasi Pewarna Alami Antosianin dari Rosela (*Hibiscus Sabdariffa* L.) dengan Rosmarinic Acid Terhadap Stabilitas*

Warna pada Model Minuman Ringan, Skripsi, Fakultas Teknologi Pertanian, Institut Pertanian Bogor.



Date, A.A., Desai, N., Dixit, & Nagarsenker, M., 2010, Self-nanoemulsifying Drug Delivery Systems Formulation Insight, Applications and Advances, *Nanomedicine*, **5**(10), 1595-1616.

Dehpour, A.A., Ebrahimzadeh, M.A., Fazel, N.S., dan Mohammad, N.S., 2009, *Antioxidant Activity of Methanol Extract of Ferula Assafoetida and Its Essential Oil Composition*, *Grasas Aceites*, 60(4), 405-412.

Delgado F, Paredes VO, dan Lopez, 2003, *Natural Colorant for Food and Nutraceutical Uses*, Boca Raton: CRC Press LLC, 54-56.

Depkes RI, 2000, *Paramaeter Standar Umum Ekstrak Tumbuhan Obat*, Cetakan Pertama, Departemen Kesehatan Republik Indonesia, Jakarta.

Draelos, Z. D., &Thaman, L. A., 2006, 157-159, *Cosmetic Formulation of Skin Care Products*, Taylor and Francis Group, New York

Escobar, J.J., Diaz, R., Rodriguez, I.M., Dominguez, C.L., Morale, R.S., Angeles, E., Melgoza, L.M. 2012, "Nanocarriers for transdermal drug delivery", dalam *Research and Reports in Transdermal Drug Delivery*, Halaman 3-17.

Garoli, D., Pelizzo, M.G., Nicolossi, P., Peserico, A., Tonin, E., Alaibac, M., 2009, Effectiveness of Different Substrate Materials for In Vitro Sunscreen Test, *Journal of Dermatological Science*, 56, Issue 2, November 2009, 89-98

Green, A., William, G., and Neale, R., 1999, *DoesDaily Use of Sunscreen or β carotene Supplements Prevent Skin Cancer in Healthy Adults?*, 354, 723-729, *Lancet*

Gursoy, R.N., Benita, S., 2004, Self-Emulsifying Drug Delivery Systems (SEDDS) for Improved Oral Delivery of Lipophilic Drugs, *Biomed and Pharmacother*, **58**, 173-182.

Haila, K, 1999, *Effects of Carotenoids and Carotenoid-Tocopherol Interaction on Lipid Oxidation In Vitro*, University of Helsinki, Department of Applied Chemistry and Microbiology Helsinki.

Harbonne, J. B., and Baxter, H., 1999, *Handbook of Natural Flavonoids*, vol 2, Wiley, Chichester.

Harborne, 2005, *Encyclopedia of Food and Color Additives*. CRC Press, Inc, New York.

Harry, R.G., 1982, *The Principle and Practice of Modern Cosmetics*, 6th Ed., 306-320; 702-705, Leonard Hill Book, London.

Joshita, 1998, *Stability Testing of Cosmetics Product, Personal Care Ingredient Asia Conference Paper, Step Exhibitions Limited*, 1-9, Tumbridge Wells

Karnjanawipagul, P., W. Nittayanuntawech, P. Rojsanga & L. Suntornsuk. 2010, *Analysis of β - Carotene in Carrot by Spectrophotometry*, *Journal of Pharmaceutical Science* 37 (1- 2): 8 – 16.

- Ketaren, S., 1986, *Pengantar Teknologi Minyak dan Lemak Pangan*, UI Press, Jakarta, halaman 64.
- Khullar R, Saini S, Sethi N, Rana AC, 2011, *Emulgel a surrogate approach for topically used hydrophobic dugs*, Int J Pharm Biology Sci; 117-128.
- Kyatanwar, A.U., Jadhav, K.R., dan Kadam, V.J. 2010, “Self Micro-Emulsifying Drug Delivery System (SMEDDS)”, dalam *Journal of Pharmacy Research*. Volume 3, nomor 1, halaman 75-83.
- Lachman, L., Herbert, A.L and Joseph, L.K. 1994, *Teori dan Praktek Farmasi Industri*, Ed ke-3, UI Press, Jakarta.
- Lazarus J, Bernard I, 1994, Semipadat, Dalam Lachman L, Herbert AL, Joseph LK. Teori dan praktek farmasi industri, Edisi ke-3, UI Press, hal. 1091-145, Jakarta.
- Lee, A., & Kaplan, M.D., 1992, *Suntan, Sunburn, and Sun Protection*, *Journal of Wildernes Medicine* 3, 174-175, 179
- Leong LP dan Shui G, 2002, *An Investigation of Antioxidant Capacity of Fruits in Singapore Markets*, Food Chemistry, 76: 69–75.
- Lieberman., Rieger and Banker, 1989, *Pharmaceutical Dosage Form : Disperse System*, Vol ke- 2. New York: Marcel Dekker Inc, 495-498.
- Lowe, J., Nicholas and N. A. Shaath, 1990, *Sunscreens*, New York : Marcel Dekker Inc.
- Lydia S. Wijaya¹, Simon B. Widjanarko, Tri Susanto. 2001, Ekstraksi dan Karakterisasi Pigmen dari Kulit Buah Rambutan (*Nephelium Lappaceum*), *Var. Binjai Biosain*, Vol. 1 No. 2, hal. 42-53.
- Makadia, Ms. Hiral A., Bhatt, Ms. Ami Y., Parmar, Mr. Ramesh B., Paun, Ms. Jalpa S., Tank, Dr. H.M., 2013, Self-nano Emulsifying Drug Delivery System (SNEDDS): Future Aspect, *Asian J. Pharm. Res.*, **3** (1), 21-27.
- Man, J. M. De, 1997, *Kimia Makanan*, ITB, Bandung.
- Marina AM, Che Man YB, Nazimah SAH, Amin I. 2009, Chemical Properties of Virgin Coconut Oil, *J Am Oil Chem Soc*, 86: 301–307.
- Martin, Alfred., James Swarbrick, dan Arhut Cammarata, 1993, *Farmasi Fisik Edisi Ketiga*, Jilid 2, UI Press, Jakarta.
- Maryani, H., dan Kristina, L., 2005, *Khasiat dan Manfaat Rosela*, Agro Media Pustaka, Jakarta., Hal. 2-4, 6-7, 25-27.
- Maysuhara, S., 2009, *Rahasia Cantik, Sehat, dan Awet Muda*, Yogyakarta (ID), Pustaka Panasea.

Mitchell, H. L, 1972, *How PEG Helps the Hobbyist Who Work With Wood*, Department of Agriculture, U. S.

Mitsui, T., 1997, *New Cosmetic Science*, 32-38, 142, Elsevier Science B.V., Netherlands.

Omotuyi, O. *et al.*, 2010, *Hibiscus sabdariffa L. anthocyanins alter circulating reproductive hormones in rabbits (Oryctolagus cuniculus)*, Full Length Research Paper, Journal of Diabetes and Endocrinology Vol. 1(3), pp. 36-45.

Osterwalder, U., Herzog, B., 2009, European Commission Recommendation on *the Efficacy of Sunscreen Products and the Claims Made Relating Thereto*, 2006, Sun Protection Factors: World Wide Confusion, *British Journal of Dermatology*, 161, 3-24

Patel, J., Kevin, G., Patel, A., Raval, M., & Sheth, N., 2011, Design and Development of A Self-nanoemulsifying Drug Delivery System for Telmisartan for Oral Drug Delivery, *Int. J. Pharm. Investig.*, 1(2), 112-118.

Pathan IB, Setty CM, 2009, *Chemical preparation enhancers for transdermal drug systems*, Trop J Pharm; 173-179.

Pratimasari, D. “*Uji Aktivitas Penangkap Radikal Buah Carica papaya L. Dengan Metode DPPH dan Peneta-pan Kadar Fenolik Serta Flavonoid Totalnya.*” Skripsi, Surakarta: Fakultas Farmasi Universitas Mu-hammadiyah Surakarta, 2009.

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

Priyanto, 2007, Toksisitas Obat, Zat Kimia, dan Terapi Antidotum, Leskonfi, Depok., Hal 43-44, 48, 51, 53.

Rao, S.V.R., Shao, J., 2008, Self-Nanoemulsifying Drug Delivery Systems (SNEDDS) for Oral Delivery of Protein Drugs: Formulation Development, *Int. J. Pharm.*, 362, 2-9.

Ross, J.I., Snelling, A.M., Carnegie, E., Coates, P., Cunliffe, W.J., Bettoli, V., dkk. 2003. “Antibioticresistant acne: lessons from Europe”, dalam *Br. J. Dermatol.* Volume 148, halaman 467-478.

Rowe, R. C, Paul J. S, dan Marian, 2009, *Handbook of Pharmaceutical Science* 6th Edition, New York.

Samsudin, A.S., Khoiruddin. 2011, *Ekstraksi dan Filtrasi Membran dan Uji Stablitas Warna dari Kulit Manggis (Garcinia mangostana)*, Fakultas Teknik, Universitas Diponegoro.



Sayre, R.M., P.P. Agin., G.J. Levee., and E. Marlowe, 1979, *A Comparison of In Vivo and In Vitro Testing Sunscreening Formulas*, Photochem. Photobiol. 29: 559-566.

Setiaji, B., Prayugo, S., 2006, *Membuat VCO Berkualitas Tinggi, 5-22*, Penebar Swadaya, Jakarta

Setyowati, W.A.E., Ashadi, Ariani, S.R.D., Mulyani, B. Dan Rahmawati, C.P., (2014). *Skrining Fitokimia dan Identifikasi Komponen Utama Ekstrak Metanol Kulit Durian (Durio zibethinus Murr.) Varietas Petruk*. Prosiding Seminar Nasional Kimia dan Pendidikan Kimia VI

Shaath, N. A., 1990, *The Chemistry of Sunscreens, in Sunscreens : Development, Evaluation, and Regulatory Aspect*, Lowe, N. J., and N. A. Shaath (Eds.), 211-232 Marcel Dekker Inc., New York.

Singh RP, Parpani S, Narke R and Chavan R, *Emulgel a recent approach for topical drug delivery system*.Asian Journal, 2014, 2:112-123.

Siregar, Y. D. Inayati dan Nurlela, 2011, *Ekstraksi dan Uji Stabilitas Zat Warna Alami dari Bunga Kembang Sepatu (Hibiscus rosa-sinensis L.) dan Bunga Rosela (Hibiscus sabdariffa L.)*, Fakultas Sains dan Teknologi, Universitas Islam Negeri (UIN) Syarif Hidayatullah, Jakarta.

Soematmaji, D.W. 1998, *Peran stress oksidatif dalam Patogenesis Angiopati Mikro dan Makro DM*, dalam: *Medica*. 5 (24): 318-325.

Stanfield, J.W., 2003, *Sun Protectans: Enhancing Product Functionality in Sunscreen*, in Schueller, R. Romanowski, P., (Eds), *Multifunctional Cosmetics*, 145, Marcell Dekker Inc., New York.

Stanos SP, 2007, *Topical agents for the management of musculoskeletal pain*, J Pain Symptom Manage; 33.

Supiyanti, W., Wulansari, E. D. & Kusmita, L., 2010, *Uji Aktivitas Antioksidan dan Penentuan Kandungan Antosianin Total Kulit Buah Manggis (Garcinia mangostana L)*, Majalah Obat Tradisional, 15(2), Semarang.

Vanini LS., Hirata TA., Kwiatkowski A., & Clemente E., 2009, *Extraction and Stability Of Anthocyanins From The Benitaka Grape Cultivar (Vitis Vinifera L.)*, Braz.J.Food. Technol, 12((3):213-219, DOI:10.4260.

Villarino BJ, Dy LM, Concepcion M, Lizada C, 2007, *Descriptive sensory evaluation of virgin coconut oil and refined, bleached and deodorized coconut oil*, LWT-Food Sci Technol 40: 193–199, DOI: 10.1016/j.lwt.2005.11.007.

Voight, R., 1994, *Buku Pelajaran Teknologi Farmasi, Edisi Kelima, 378-384*, Gadjah Mada University Press, Yogyakarta.



UNIVERSITAS
GADJAH MADA

Optimasi Formula Nanoemulsi Ekstrak Bunga Rosella Dengan Kombinasi Tween 80 dan PEG 400 Untuk Sediaan Nanoemulgel Tabir Surya dan Antioksidan

DINA WIDYA HASTUTI N, Dr.rer.nat. Endang Lukitaningsih, M.Si., Apt ; Dr. rer. nat. Ronny Martien, M.Si.

Universitas Gadjah Mada, 2016 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Wakerly, M.G., Pouton, C.W., Meakin, B.J., 1987, Evaluation of the Selfemulsifying Performance of a Non-ionic Surfactant : Vegetable Oil Mixture, *J. Pharm Pharmacol*, 39-45.

Wasitaatmadja, S.M., 1997, Penuntun Ilmu Kosmetik Medik, 3, 4, 11-15, 23, 117-120, Universitas Indonesia Press, Jakarta

Willis, I., & Cylus, L., 1977, UVA Erythema in Skin: Is It a Sunburn?, *J Invest Dermato.* 9, 68,128 *cit.*

Wrolstad, R. E. and Giusti, M. M., 2001, *Characterization and Measurement of Anthocyanin by UV-Visible Spectroscopy: Current Protocols in Food Analytical Chemistry*, John Wiley and Son, New York, 34-36.

Wulandari, E., 2013, Formulasi SNEDDS (Self-nanoemulsifying drug delivery system) untuk Gamavuton-0 dengan Menggunakan Minyak Nabati, *Skripsi*, Fakultas Farmasi, Universitas Gadjah Mada, Yogyakarta.