



## DAFTAR PUSTAKA

- Admadadi, Bambang dan Arnata, Wayan I., 2015, *Teknologi Polimer*, Fakultas Teknologi Pertanian Universitas Udayana.
- Afianti, Hanum Pramuji., Murrukmihadi, Mimiek., 2015, Pengaruh Variasi Kadar Gelling Agent HPMC terhadap Sifat Fisik dan Aktivitas Antibakteri Sediaan Gel Ekstrak Etanolik Daun Kemangi, *Majalah Farmaseutik*, 11 (2).
- Ahmed, Selena., Stepp, John Richard, 2013, Green Tea: The Plants, Processing, Manufacturing and Production, *Academic Press*, 19-31.
- Amjad, M., Ehteshamuddin, M., Chan, S., 2011, Formulation an Evaluation of Transdermal Patch of Atenolol, *Advance Research in Pharmaceuticals and Biologicals*, 1.
- Andre, B., 2013, Green Clay And Oloe Vera Peel of Facial Masks: Response Surface Methodology Applied to The Formulation Design, *American Association of Pharmaceutical Scientists*, 14(1), 445-455.
- Armstrong, N.A, 2006, *Pharmaceutical Experiments Design and Interpretation*, second edition, Taylor and Francis, London.
- Asrofi M, Dwilaksana D, Abral H, Fajrul R, 2019, Tensile, Thermal, And Moisture Absorption Properties of Polyvinyl Alcohol (PVA) / Bengkuang (Pachyrhizus erosus) Starch Blend Films. *Mat. Sci. J.*, 16 (1).
- Bernatoniene, J., Masteikova, R., Davalgiene, J., Peciura, R., Gauryliene, R., Bernatoniene, R., 2011, Topical Application of Calendula officinalis (L.) :Formulation and Evaluation of Hydrophilic With Antioxidant Activity, *Journal of Medicinal Plants Research*, 5(6), 868-877.
- Bernatoniene, J., Kopustinskiene, DM., 2018, The Role of Catechins in Cellular Responses to Oxidative Stress, *Molecules*, 23, 965.
- Bochek, A. M., Yusupova, L. D., Zabivalova, N. M., Petropaviovskii, G. A., 2002, Rheological Properties of Aqueous H-Carboxymethyl Cellulose Solutions with Various Additives, *Russian Journal of Applied Chemistry*, 75, 4-5.
- Bolton, S., 2009, *Pharmaceutical Statistics: Practical and Clinical Applications*, fifth edition, Marcel Dekker. Ink., New York.
- Brick, C., S, Degoutin., N, Tabary., V, Miri., and M, Bacquet., 2014, New Crosslinked Cast Films Based On Poly (Vinyl Alcohol): Preparation And Physico-Chemical Properties, *Express Polymer Letters*, 8 (12), 941-952.



- Budiman, Arif., Aulifa, Diah Lia., Kusuma, Arif Satria Wira., Kurniawan, Insan Sunan., Sulastri, Astri., 2017, Peel Off Gel Formulation from Black Mulberries Extract as Anti Acne Mask, *National Journal of Physiology, Pharmacy and Pharmacology*, 7(9).
- Camargo, LEA., Pedroso, LS., Vendrame, RM., Mainardes, R.M., Khalil, N.M., 2016, Antioxidant and Antifungal Activities of *Camellia sinensis* L Kuntze Leaves Obtained by Different Forms of Production, *Braz. J. Biol.*, 76 (2), 428-434.
- Depkes RI, 2014, *Farmakope Indonesia*, Edisi 5, Kementerian Kesehatan Republik Indonesia, Jakarta.
- Djuanda, Stefani Rachel S., Novianto, Endi., Boediardja., Jusman, Sri Widia A., 2012, Peran Stres Oksidatif pada Penuaan Kulit secara Intrinsik, *MDVI*, 39(3), 127-133.
- Frinda, Indriana Agustin Claradila, 2018, Optimasi Formula Sediaan Edible Film Guaufenesin dengan Kombinasi Plasticizer Sorbitol dan Gliserol, Skripsi, Fakultas Farmasi.
- Fujiastuti, Trecya., dan Sugihartini, Nining., 2015, Sifat Fisik dan Daya Iritasi Gel Ekstrak Etanol Herba Pegagan (*Centella asiatica* L.) dengan Variasi Gelling Agent, *Pharmacy*, 12 (1), 11-20.
- Gandjar, I. G. dan Rohman, A., 2007, *Kimia Farmasi Analisis*, Pustaka Pelajar, Yogyakarta.
- Ghadermazi, R., Keramat, J., & Goli, S. A. H, 2016, Antioxidant Activity and Physical Properties of Hydroxypropylmethylcellulose Films Enriched with Essential Oils, *Journal of Food and Nutrition Research*, 55(1), 22–32.
- Ghadermazi, R., Hamdipour, Saeid., Sadeghi, Kambiz., Ghadermazi, Rojin., Asl, Asghar Khosrowshahi., 2019, Effect of Various Additives on The Properties of Films and Coating Derived from Hydroxypropyl Methylcellulose-A Review, *Food Science and Nutrion*, 7, 3363-3377.
- Grace, F.X., C, Darsika., K.V. Sowmya., K, Suganya., and S, Shanmuganathan, 2015, Preparation and Evaluation of Herbal Peel OffFace Mask. *American Journal of Pharm Tech Research*, 5, 33.
- Haerani, Ani., Chaerunisa, Anis Yohana., Subarnas, Anas., 2018, Artikel Tinjauan: Antioksidan Untuk Kulit, *Farmaka*, 16(2), 135-151.
- Hani, Rani Cyintia., Milanda, Tiana., 2015, Review: Manfaat Antioksidan pada Tanaman Buah di Indonesia, *Farmaka*, 14(1), 184-190.



Hilal, Yumen, 2017, Morphology, Manufacturing, Types, Composition, dan Medicinal Propertiesof Tea (*Camellia sinensis*), *JBas ApplPI Sci*, 1(2), 107.

Huichao, Wu., Shouying, Du., Yang, Lu., Ying, Li., Wang, Di., 2014, The Application of Biomedical Polymer Material Hydroxypropil Methyl Cellulose (HPMC) in Pharmaceutical Preparations, *Journal of Chemical and Pharmaceutical Research*, 6(5): 155-160.

Irfan, Muhammad Fariz, 2018, Optimasi Gelling Agent Karbopol, Natrium Karboksimetilselulosa dan Metil Selulosa Serta Uji Aktivitas Gel Nitrokalkon sebagai Tabir Surya secara Invitro, Skripsi, Fakultas Farmasi.

Irianti, Tanti Tatang., Sugiyanto., Nuranto, Sindu., Kuswandi, 2017, *Antioksidan*, Pharmaceutical analysis.

Issusilaningtyas, E., 2014, Optimasi Formula Krim Ekstrak Kubis Ungu (*Brassica olearacea* L. var. *capitata f. rubra*) Sebagai Antioksidan dengan Metode Simplex Lattice Design, Tesis, Fakultas Farmasi, Universitas Gadjah Mada.

Jain, Naman., Singh, Vinay Kumar dan Chauhan, Sakshi., 2018, A Review on Mechanical and Water Absorption Properties of Polyvinyl Alcohol Based Composites/Film, *Journal of Mechanical Behavior of Materials*, 26(5).

Karki, Sandeep., Kim, Hyeongmin., Na, Seong-Jeong., Shin, Dohyun., Jo, Kanghee., Lee, Jaehwi., 2016, Thin Films as an Emerging Platform for Drug Delivery, *Asian Journal Pharmaceutical Science*, 11, 55 – 574.

Kedare, Sagar B., and Singh, R.P., 2011, Genesis and Development of kedare Method of Antioxidant Assay, *J Food Sci Technol*, 48(4), 412-422.

Kodama, Débora Harumi., Schmit, Any Elisa de Souza., Franco, Maria., Inés, Maria., 2010, Flavonoids, total phenolics and antioxidant capacity: comparison between commercial green tea preparations, *Ciênc. Tecnol. Aliment Campinas*, 30(4), 1077-1082.

Kusumawati, Idha dan Indrayanto, Gunawan., 2013, Natural Antioxidant in Cosmetics, *Studies in Natural Product Chemistry*, 40, 485-505.

Kusmiyati, Mimin., Sudaryat, Yayat., Lutfiah, Isti Agnia., Rustamstah, Ardi., Rohdiana, Dadan., 2015, Aktivitas antioksidan, kadar fenol, dan flavonoid total dalam teh hijau (*Camellia sinensis*(L.) O. Kuntze) asal



- tiga perkebunan Jawa Barat, *Jurnal Penelitian Teh dan Kina*, 18(2):101-106.
- Langenbucher & Lange, 2007, *Teori dan Praktek Farmasi Industri II*. Edisi III, Universitas Indonesia Press, Jakarta.
- Lan, Wenting., He, Li., Liu, Yaowen., 2018, Preparation and Properties of Sodium Carboxymethyl Cellulose/Sodium Alginate/Chitosan Composite Film, *MDPI*, 8, 291.
- Latimer, G., 2012, *Official Methods of Analysis of AOAC International*, 19th edition, AOAC international, Gaitthersburg Md.
- Leliqia, Ni Putu Eka., Purwitadewi, Yanita Ristanti., Wirasuta, I Made Agus., 2015, Pengaruh pH dan Lama Penyimpanan terhadap Stabilitas Kimia Katekin, *Indonesian Journal of Legal and Forensic Science*, 5, 1-3.
- Liochev, S.I., 2013, Reactive Oxygen Species and the Free Radical Theory of Aging, *Free Radical Biology and Medicine*, 60, 1-4.
- Marchaban, Fudholi, A., Sulaiman, T.N.S., Mufrod, Martin, R., and Bestari, A.N., 2016, Buku Petunjuk Praktikum Teknologi Farmasi:Teknologi Formulasi Sediaan Cair Semi Padat, Laboratorium Teknologi Farmasi Fakultas Farmasi Universitas Gadjah Mada,Yogyakarta.
- Muktisari, Diah Sari dan Hartati, Fadjar Kurnia, 2018, Analisis Aktivitas Antioksidan pada Beras Hitam, *Food Science and Technology Journal*, 1, 20-27.
- Nadia, Fenny., 2018, Formulasi Sediaan Masker Gel Peel-Off Ekstrak Bekatul dari Padi (*Oryza sativa*) sebagai Anti Aging, Skripsi, Universitas Sumatra Utara.
- Nimse, Satish Balasahe., Pal, Dilipkumar., 2015, Free Radical, Natural Antioxidant, and Their Reaction Mechanisms, *Royal Society and Chemistry*, 5, 27986-28006.
- Noviani, Yuslia., Noor, Siti Umrah., Nengsih, Erni., 2016, Pengaruh Variasi Konsentrasi Polivinil Alkohol pada Formulasi Masker Gel Peel-Off Ekstrak Belimbing Wuluh (*Averrhoa Bilimbi L.*) sebagai Anti Jerawat, *Jurnal Ilmu Kefarmasan Indonesia*, 14(2), 199-205.
- Pangkahila, Wimpie, 2011, *Anti-Aging, Tetap Muda dan Sehat*, Kompas Media Nusantara.
- Parhi, Rabinarayan., Suresh, Podilam., dan Patnaik, Suhasini., 2015, Formulation Optimization of PVA/HPMC Cryogel of Diltiazem HCl Using 3-level Factorial Design and Evaluation for Ex vivo Pemeation, *Journal of Pharmaceutical Investigation*, 45, 319-327



- Pastor, C., Sánchez - González, L., Cháfer, M., Chiralt, A., & González Martínez, C., 2010, Physical and Antifungal Properties of Hydroxypropylmethylcellulose Based Films Containing Propolis as Affected by Moisture Content, *Carbohydrate Polymers*, 82(4), 1174–1183.
- Paye, M., Andre, O.B. dan Howard, I.M., 2014, *Handbook of Cosmetic Science and Technology Fourth Edition*, 220-226, Marcell Dekker Inc., New York.
- Poljsak, B., Dahmane, R, 2012, Free Radicals and Extrinsic Skin Aging. *Dermatol Research and Practice*.
- Prasanth, Mani Iyer., Sivamaruthi, Bhagavati Sundaram., Chaiyasut, Chaiyavat., Tencomnao, Tewin., 2019, A Review of The Role of GreenTea in Antiphotoaging, Stress Resistence, Neuroprotection and Autophagy, *Nutrient MDPI*, 11, 474.
- Pratiwi, Ardina Frida., Amal, Surya., Susilowati, Fitria., 2018, Variasi Jenis Humektan pada Formulasi Sediaan Masker Gel Peel Off, *Pharmasipha*, 2(2), 31-36.
- Rahmawanty, D., Yulianti, N., dan Fitriana, M., 2015, Formulasi dan Evaluasi Masker Wajah *Peel Off* Mengandung Kuersetin Dengan Variasi Konsentrasi Gelatin dan Gliserin, *Media Farmasi*, 12(1), 17-32.
- Rowe, R.C., Sheskey, Paul J., Quinn, Marian E., 2013, *Handbook Of Pharmaceutical Excipients*, 7th Ed, The Pharmaceutical Press, London.
- Senanayake, N, 2013, Green Tea Extract: Chemistry, Antioxidant Properties and Food Applications a Review, *J Funct Foods*, 5(15), 29-41.
- Setha,B., Gaspersz,F.F., Idris,A.P.S., Rahman Mailoa, M..N., 2013, Potential of Seewed Padina Sp. As Source Of Antioxidant, *Int.J.Techol*, 2, 221 -224.
- Setyani, Anastasia Putri Meilinda, 2016, Optimasi Kadar HPMC dan Propilen Glikol dalam Sediaan Gel Ekstrak Teh Hijau (*Camellia sinensis* L.) Menggunakan Metode Simplex Lattice Design, Skripsi, Fakultas Farmasi.
- Septiani, S., Wathoni, N dan Mita, S.R., 2011, Formulasi Sediaan Masker Gel Antioksidan dari Ekstrak Etanol Biji Melinjo (Gnetum Gnemon Linn), *Farmaka*, 1(1), 4-24
- Shahididi, F., 2015, *Antioxidant: Principle and Application*, Memorial University of Newfoundland, Canada



Shatalebi, Mohammad Ali., Zolfaghari, Behzad., Rashidbeygi, Milad., Morshedi, Somayeh., 2016, Formulation and Physiochemical Evaluation of Honey Containing Gel Mask, PVA and Total Hydro alcoholic Extract of *Scrophularia striata* Bois for the Healing of Minor Wound, *International Journal Medical Investigation*, 5(3), 100-107.

Sheskey, Paul J., Quinn, Marian E, 2017, *Handbook of Pharmaceutical Excipients 8<sup>th</sup> Ed*, Pharmaceutical Press, London.

Sinko, P. J., 2011, *Martin Farmasi Fisika dan Ilmu Farmasetika*, Edisi kelima, Penerbit Buku Kedokteran EGC, Jakarta.

Stamford, N. P. J., 2012, Stability, Transdermal Penetration, and Cutaneous Effects of Ascorbic Acid and its Derivatives, *Journal of Cosmetic Dermatology*, 11(4), 310–317.

Surini, Silvia., Auliyya, Annisa., 2017, Formulation of Anti-Wrinkle Hydrogel Face Mask Containing Ethanol Extract of Noni Fruit (*Morina CitriFolia* L) For Use as Nutraceutical Product, *International Journal of Applied Pharmaceutical*, 9(1).

Suryani., Putri, Andi Eka Purnama., Agustiani, Putri., 2017, Formulasi dan Uji Stabilitas Sediaan Gel Ekstrak Terpurifikasi Daun Paliasa yang Berefek Antioksidan, *Pharmacon*, 6(3), 157-168.

Swastika, Alissya., Mufrod., Purwanto., 2013, Antioxidant Activity of Cream Dosage Form Tomato Extract, *Traditional Medical Journal*, 18(3), 132 140.

Thangaraj, P, 2016, *Pharmacological Assay of Plant Based Natural Products*, Springer International Publishing, Switzerland.

Tiwari, S.B., Rajabi-Siahboomi, A.R., 2008, Modulation of Drug Release from Hydrophilic Matrices, *Advancing Process Solution: Pharmaceutical Technology*, 1-8.

Vieira, Rafael., Fernandes, Alexandra., Kaneko, Telma Marry., Consiglieri, Vledi., Pinto, Claudineia., Peiera, Claudia., Valesco, Maria Valeria., 2009, Physical and Physicochemical Stability Evaluation of Cosmetic Formulations Containing Soybean Extract Fermented by *Bifidobacterium animalis*, *Brazilian Journal of Pharmaceutical Sciences*, 45(3), 515-525.

Vinski, D., 2012, *Perfect Beauty Anti-Aging*, PT Elex Media Komputindo, Yogyakarta.



Vinshnoi, Himani, Ramesh B. Bodla and Ravi Kant, 2018, Green Tea (*Camellia sinensis*) and Its Antioxidant Property: A Review, *IJPSR*, 9(5), 1723-1736.

Wahdaningsih, Sri., Setyowati, Erna Prawita., Wahyuono, Subagus., 2011, Aktivitas Penangkapan Radikal Bebas, *Majalah Obat Tradisional*, 16(3), 156-160.

Yaar, M., dan Gilchrest, BA., 2012, Photoaging : Mechanism, Prevention and Therapy, *British Journal of Dermatology*, 157, 874-877.

Yan, Zhaoming., Yinzhaoy, Zhong., Yehui, Duan., Qinghua, Chen., Li, Fengna, 2020, Antioxidant Mecanism of Tea Polyphenol and its Impact of Health Benefit, *Science Direct*, 30(40), 1-9.

Yati, Kori., Jufri, Mahdi., Gozan, Misri., Mardiastuti., Dwita, Lusi Putri., 2018, Pengaruh Variasi Konsentrasi HPMC terhadap Stabilitas Fisik Gel Ekstrak Tembakau dan Aktivitasnya terhadap Streptococcus mutan, *Pharmaceutical Science and Research*, 5(3), 133-141.

Yeni, G., Syamsu, K., Mardliyati, E., Muchtar, H., 2017, Penentuan Teknologi Proses Pembuatan Gambir Murni dan Katekin Terstandar dari Gambir Asalan, *Jurnal Litbang Ind*, 7 (1), 1-10.

Yeni, G., Syamsu, K., Suparno, O., Mardliyati, E., Muchtar, H., 2014, Repeated Extraction Process of Raw Gambiers (*Uncaria gambier Robx.*) for the Catechin Production as an Antioxidant, *Int. J. Appl. Eng. Res*, 9, 24565–24578.

Zeng L, Ma M, Li C, Luo L, 2017, Stability of tea polyphenols solution with different ph at different temperatures, *Int J Food Prop*, 20(18).

Zuo, AR., Dong, HH., Yu, Y., Shu, QL., Zheng, LX., Yu, XY., 2018, The antityrosinase and antioxidant activities of flavonoids dominated by the number and location of phenolic hydroxyl groups. *Chin Med*, 13(51).