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DAFTAR PUSTAKA

Debeaufort, F., Voilley, A. & Gallo, J. A. Q., 2010. Edible films and coatings: Tommorow's Packagings.. In: *Critical Review in Food Science and Nutrition..* s.l.:s.n., pp. 299-313.

Min, S. C., Janjarasskul, T. & Krochta, J. M., 2009. Tensile andmoisture barrier properties of whey protein–beeswax layered composite films. *Wiley Interscience,* 89(J Sci Food Agric), p. 251–257.

Permana, A. W., Widayanti, S. M., Prabawati, S. & Setyabudi, D. A., 2012. Sifat Antioksidan Bubuk Kulit Buah Manggis (Garcinia Mangostana L.) Instan Dan Aplikasinya Untuk Minuman Fungsional. *Jurnal,* 9(2), pp. 88-95.

Su, J. F. & Huang, Z., 2010. Structure and Properties of Carboxymethyl Cellulose/Soy Protein Isolate Blend Edible Films Crosslinked by Maillard Reactions. *Carbohydrate Polymers,* Volume 79, pp. 145-153.

Wu, X. et al., 2021. Investigation of interactions between zein and natamycin by fluorescence spectroscopy and molecular dynamics simulation. *Journal of Molecular Liquids,* Volume 327, pp. 1-29.

Aashigari, S., Goud, R., Vykuntam, U. & Potnuri, N., 2019. Stability Studies of Pharmaceutical Products. *World Journal of Pharmaceutical Research,* 8(8), pp. 479-492.

Afifah, N., Sholichah, E., Indrianti, N. & Darmajana, D. A., 2018. Pengaruh Kombinasi Plasticizer Terhadap Karakteristik Edible Film Dari Karagenan Dan Lilin Lebah. *Biopropal Industri,* 5 Mei.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

American Society for Testing and Material (ASTM), 1980. Standard Test Method for Water Vapour Transmission of Thin Plastics Sheeting. *In Annual Book of American Standard Testing Methods,* E(96).

American Society for Testing and Material (ASTM), 1989. Standard Test Method for Oxygen Transmission of Thin Plastics Sheeting.. *In Annual Book of American Standard Testing Methods,* D(81), p. 3895.

Anonim, 2020. *Farmakope Indonesia.* VI ed. Jakarta: Direktorat Jenderal f Kefarmasian dan Alat Kesehatan.

Ansar, 2011. Pengaruh Suhu dan Kelembaban Udara Terhadap Perubahan Effervescent Sari Buah Selama Penyimpanan. *Journal Teknologi dan Industri Pangan,* XXII(1), pp. 73-77.

Ansel, C. H., 1989. *Pengantar Bentuk Sediaan Farmasi..* 4 ed. Jakarta: UI-PRESS.

Arciello, A. et al., 2021. Development and characterization of antimicrobial and antioxidant whey protein-based films functionalized with Pecan (Carya illinoinensis) nut shell extract. *Food Packaging and Shelf Life,* 29(100710), pp. 2214-2894.

Audic, J.-L., Fourcade, F. & Chaufer, B., 2007. Biodegradable Material Obtained from Renewable Resource: Plasticized Sodium Caseinate Films. In: *Thermodynamics, Solubility and Environmental Issues.* s.l.:s.n., pp. 369-382.

UNIVERSITAS
GADJAH MADA
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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Ballesteros-Mártinez, L., Pérez-Cerverab, C. & Andrade-Pizarroa, R., 2020. Effect of Glycerol and Sorbitol Concentrations on Mechanical, Optical, and Barrier Properties of Sweet Potato Starch Film. *NFS Journal,* Volume 20, pp. 1-9.

Banker, G. & Anderson, N., 1994. Tablet. In: L. Lachman, H. A. Lieberman & Kanig, eds. *The theory and practlce of industrial pharmacy.* 3 ed. Philadelphia: UI-Press, p. 316 – 329.

Basiak, E., Lenarta, A. & Debeaufortb, F., 2016. Effects of carbohydrate/protein ratio on the microstructure and the barrier and sorption properties of wheat starch–whey protein blend edible films. *J Sci Food Agric,* Volume 6.

Benbettaïeb, N., Karbowiak, T. & Debeaufort, F., 2017. Bioactive edible films for food applications:influence of the bioactive compounds on film structure and properties. *Critical Reviews in Food Science and Nutrition,* pp. 1549-7852.

Boland, M., 2011. Whey Protein. In: 1, ed. *Handbook of Food Proteins.* s.l.:Cambridge: Woodhead Publishing.

BPOM, 2013. *Peraturan Kepala Badan Pengawasa Obat dan Makanan Republik Indonesia Nomor 12 Tahun 2013 tentang Batas Maksimum Penggunaan Bahan Tambahan Pangan Pelapis.* [Online].

Cagri, A., Ustusnol, Z. & Ryzer, E., 2001. Antimicrobial, Mechanical, and Moisture Barrier Properties of Low pH Whey Protein-based Edible Films

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
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Containing p-Aminobenzoic or Sorbic Acids. *Journal Of Food Science,* 66(6), pp. 865-871.

Cuartas, C. A. et al., 2020. Characterization of whey protein-based films incorporated with natamycin and nanoemulsion of α-tocopherol.

Cuq, B., Gontard, N., Cuq, J.-L. & Guibert, S., 1997. Selected Functional Properties of Fish Myofibrillar Protein-Based Films As Affected by Hydrophilic Plasticizers. *Journal of Agricultural and Fodd Chemistry,* 45(3), pp. 622-626.

Díaz, O., Candia, D. & Cobos, Á., 2016. Effects of Ultraviolet Radiation on Properties of Films From Whey Protein Concentrate Treated Before or After Film Formation. *Food Hydrocolloids,* Volume 55, pp. 189-199.

Donhowe, I. G. & Fennema, O., 1993. Water Vapor and Oxygen Permeability of Wax Films. *Journal of the American Oil Chemists' Society,* Volume 70, pp. 867-873.

Doublier, J.-L., Garnier, C., Renard, D. & Sanchez, C., 2000. Protein-polysaccharide interactions. *Current Opinion in Colloid & Interface Science,* Issue 5, pp. 202-214.

Eissa, A. S. & Khan, S. A., 2006. Modulation of Hydrophobic Interactions in Denatured Whey Proteins by Transglutaminase Enzyme. *Food Hydrocolloids,* 20(4), pp. 543-547.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Farooq, M. A. et al., 2019. Whey protein: A functional and promising material for drug delivery systems recent developments and future prospects. *Polimers Science Technology,* pp. 1-9.

Fera, M. & Nurkholik, 2018. Kualitas fisik edible film yang diproduksi dari kombinasi gelatin kulit domba dan agar (Gracilaria sp). *Journal of Food and Life Sciences,* 2(1), pp. 45-56.

Fernandes, L. M. et al., 2020. Whey Protein Films Added With Galactooligosaccharide and Xylooligosaccharide. *Food Hydrocolloids,* Volume 104, pp. 1-6.

F, J., N, R. R., Fernando, Z. & Pedreschi, O. F., 2015. Physical properties of emulsion-based hydroxypropyl methylcellulose/whey protein isolate (HPMC/WPI) edible films. *Carbohydrate Polymers,* Volume 15, pp. 1-9.

Galietta, G., Cuq, B. & Gilbert, S., 1998. Mechanical and Thermomechanical Properties of Films Based on Whey Proteins as Affected by Plasticizer and Crosslinking Agents. *1998 J Dairy Sci,* Issue 81, pp. 3123-3130.

Galietta, G., Gioia, L., Guilbert, S. & Cuq, B., 1998. Mechanical and Thermomechanical Properties of Films Based on Whey Proteins as Affected by Plasticizer and Crosslinking Agents. *Journal of Dairy Science1,* 81(12), pp. 3123-3130.

Galus, S. & Kadzińska, J., 2015. Whey Protein Edible Films Modified with Almond and Walnut Oils. *Food Hydrocolloids.*

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Galus, S. & Kadzińska, J., 2016. *Moisture Sensitivity, Optical, Mechanical and Structural Properties of Whey Protein-Based Edible Films Incorporated with Rapeseed Oi.* 54 ed. s.l.:Food Technol. Biotechnol..

Galus, S. & Kadzinska, J., 2018. Gas Barrier and Wetting Properties of Whey Protein Isolate-Based Emulsion Films. *Polymer Engineering & Science,* p. Society of Plastics Engneers.

Galus, S. & Kadzinska, J., 2018. Gass Barrier and Wetting Properties of Whey Protein Isolate-Based Emulsion Films. *Polymer Engineering & Science,* p. 109.

Galus, S. & Lenart, A., 2019. Optical, mechanical, and moisture sorption properties of whey protein edible films. *Journal of Food Process Engineering,* pp. 1-10.

Galus, S. & Lenart, A., 2019. Optical, mechanical, and moisture sorption properties of whey protein edible films. *J Food Process Eng.*

Gounga, M. E., Xu, S.-Y. & Wang, Z., 2007. Whey protein isolate-based edible films as affected by protein concentration, glycerol ratio and pullulan addition in film formation. *Journal of Food Engineering,* Volume 83, pp. 521-530.

Gounga, M. E., Xu, S.-Y. & Wang, Z., 2010. Film Forming Mechanism And Mechanical And Thermal Properties Of Whey Protein Isolate-Based Edible Films As Affected By Protein Concentration, Glycerol Ratio And

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Pullulan Content. *Whey Protein Isolate-Based Edible Films,* pp. 501-5019.

Greibe, E. et al., 2020. Effects of Prolonged Whey Protein Supplementation and Resistance Training on Biomarkers of Vitamin B12 Status: A 1-Year Randomized Intervention in Healthy Older Adults (the CALM Study). *Micronutrients and Human Healts,* 12(7).

Guimarães, D. H. P. & Gasparetto, C. A., 2005. Whey proteins solubility as function of temperature and pH. *Lebensmittel-Wissenschaft und-Technologie,* 1(38), pp. 77-80.

Guyomarc'h, F., Andoyo, R., Cauty, C. & Famelart, M.-H., 2014. Model mixtures evidence the respective roles of whey protein particles and casein micelles during acid gelation. *Food Hydrocolloids,* Volume 37, pp. 203-212.

Hardjono, Suharti, H. P., Permatasari, D. A. & Sari, V. A., 2016. Pengaruh Penambahan Asam Sitrat Terhadap Karakteristik Film Plastik Biodegradable dari Pati Kulit Pisang Kepok (Musa Acuminata Balbisiana Colla). *Jurnal Bahan Alam Terbarukan,* 5(1), pp. 22-28.

Herlina, Kuswardhani, N., Belgis, M. & Tiara, A., 2020. Characterization of Physical and Chemical Properties of Effervescent Tablets Temulawak (Curcuma zanthorrhiza) in the Various Proportion of Sodium Bicarbonate and Tartaric Acid. *Agricultural Engineering and Technologi,* 21 January.pp. 1-7.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Hong, S. I. & Krochta, J. M., 2006. Oxygen barrier performance of whey-protein-coated plastic films as affected by temperature, relative humidity,base film and protein type. *Journal of Food Engineering,* Volume 77, p. 739–745.

Hubbard, R. E. & Haider, M. K., 2010. Hydrogen Bonds in Proteins: Role and Strength. *Encyclopedia of Life Science: Structural Biology.*

Janjarasskul, T. & Krochta, J. M., 2010. Edible packaging materials. In: *Annual Review Of Food Science And Technology.* 1 ed. s.l.:s.n., pp. 415-448..

Jelen, P., 2009. Whey-based functional beverages. *Functional and Speciality Beverage Technology,* pp. 259-280.

Kesehatan, Direktorat Jenderal Kefarmasian dan Alat, 2020. *Farmakope Indonesia.* VI ed. Jakarta: Kementerian Kesehatan RI..

Ket-on, A. et al., 2016. Properties and Storage Stability of Whey Protein Edible Film with Spice Powder. *J Food Sci Technol.*

Kristo, E., Hazizaj, A. & Corredig, M., 2012. Structural Changes Imposed on Whey Proteins by UV Irradiation in a Continuous UV Light Reactor. *Journal of Agricultural and Food Chemistry,* Volume 60, pp. 6204-6209.

Kumar, A. & Saini, S. C., 2021. Edible composite bi-layer coating based on whey protein isolate,xanthan gum and clove oil for prolonging shelf life of tomatoes. *Journal Pre-proof.*

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Lamba, P., Kaur, D. P., Raj, S. & Sorout, J., 2021. Recycling/reuse of plastic waste as construction material for sustainable development: a review. *Environmental Science and Pollution Research,* pp. 1-24.

Meindrawan, B., Muchtadi, T. R., Suyatma, n. e. & Iriani, E. S., 2017. Aplikasi Pelapis Bionanokomposit berbasis Karagenan untuk Mempertahankan Mutu Buah Mangga Utuh. *Jurnal Keteknikan Pertanian,* 19 May.

Mei, Y. & Zhao, Y., 2003. Barrier and Mechanical Properties of Milk Protein-Based Edible Films Containing Nutraceuticals. *Journal of Agricultural and Food Chemistry,* Volume 51, pp. 1914-1918.

Moeyy, S. W., Abdullah, A. & Ahmad, I., 2014. Development, characterization and potential applications of edible film from seaweed (Kappaphycus alvarezii).

Mohrle, R., 1989. Effervescent Tablets. In: *Pharmaceutical Dosage Forms Tablet.* New York: Marcel Dekker Inc, pp. 225-255.

Osés, J. et al., 2009. Development and characterization of composite edible films based on whey protein isolate and mesquite gum. *Journal of Food Engineering,* 92(1), p. 56–62.

Ozdemir, M. & Floros, J. D., 2008. Optimization of edible whey protein films containing preservatives for mechanical and optical properties. *Journal of Food Engineering,* 84(-), pp. 116-123.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Parikh, R. et al., 2015. Development And Optimization Of Effervescent Tablets Of Promethazine. *International Journal of Pharmaceutical Sciences and Research,* 6(6), pp. 5077-5084.

Pascall, M. A. & Lin, S. J., 2013. The Application of Edible Polymeric Films and Coatings in the Food. *Journal of Food Processing & Technology,* p. 4:2.

Patel, S., 2015. Functional food relevance of whey protein: A review of recent findings and scopes ahead. *Journal of Functional Foods,* 19(I), pp. 308-319.

Pellicer, E. et al., 2017. *Advances in Applications of Industrial Biomaterials.* 1 ed. s.l.:Springer, Cham.

Peng, X.-w., Ren, J.-l., Zhong, L.-x. & Sun, R.-c., 2011. Nanocomposite Films Based on Xylan-Rich Hemicelluloses and Cellulose Nanofibers with Enhanced Mechanical Properties. *Biomacromolecules,* 12(9), p. 332103329.

Perez-Gago, M. & Krochta, J., 2001. Denaturation Time and Temperature Effects on Solubility, Tensile Properties, and Oxygen Permeability of Whey Protein Edible Films. *Food Engineering and Physical Properties-Journal Of Food Science,* 66(5), pp. 704-710.

Perez-Gago, M. & Krochta, J., 2001. Denaturation Time and Temperature Effects on Solubility, Tensile Properties, and Oxygen Permeability of Whey

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Protein Edible Films. *Journal Of Food Science: Food Engineering and Physical Properties,* 66(5), pp. 705-711.

Pérez-Gago, M., Nadaud, P. & Krochta, J., 1999. Water Vapor Permeability, Solubility, and Tensile Properties of Heat-denatured versus Native Whey Protein Films. *JOURNAL OF FOOD SCIENCE,* 64(6).

Pluta-Kubica, A. et al., 2019. Active edible furcellaran/whey protein films with yerba mate and white tea extracts: Preparation, characterization and its applicationto fresh soft rennet-curd cheese. *International Journal of Biological Macromolecules.*

Prasetyo, B. & Kustiawan, E., 2012. Pemanfaatan Whey Fermentasi Sebagai "Funtional Feed" dalam Meningkatkan Performans Broiler. *Jurnal ilmiah inovasi,* 12(1), pp. 84-88.

Prommakool, A., Sajjaanantakul, T., Janjarasskul, T. & Krochtac, J. M., 2011. Whey protein–okra polysaccharide fraction blend edible films: tensile properties, water vapor permeability and oxygen permeability. *J.Sci Food Agric,* Issue 91, pp. 362-369.

Rengasamy, R., 2011. Improving Moisture Management in Apparel. In: *Woodhead Publishing Series in Textiles.* s.l.:s.n.

Rodzik, A., Pomastowski, P., Sagandykova, . G. N. & Buszewski, B., 2020. Interactions of Whey Proteins with Metal Ions. *Feature Papers in Bioactives and Nutraceuticals,* 21(6), pp. 1-26.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Rondanell, M. et al., 2016. Whey protein, amino acids, and vitamin D supplementation with physical activity increases fat-free mass and strength, functionality, and quality of life and decreases inflammation in sarcopenic elderly. *J.Clin Nur.*

Roy, S., Weller, C., Gennadios, A. & Zeece, M., 2013. Physical and molecular properties of wheat gluten films cast from heated film-forming solutions. *National Agricultural Library,* 64(1), pp. 57-60.

Rusli, A., Metusalach, Salengke & Tahir, M. M., 2017. Karakterisasi Edible Film Karagenan Dengan Pemlastis Gliserol. *Jurnal Pengolahan Hasil Perikanan Indonesia,* 20(2), pp. 212-229.

Ryan, K. J. & Ray, C. g., 2014. *Sherris Medical Microbiology-International.* 6 ed. Switzerland: McGraw-Hill Professional.

Sabbah, M. et al., 2019. Transglutaminase Cross-Linked Edible Films and Coatings for Food Applications. In: *Enzymes in Food Biotechnology.* s.l.:s.n., pp. 369-388.

Saha, T., Hoque, M. E. & Mahbub, T., 2020. Biopolymers for Sustainable Packaging in Food, Cosmetics, and Pharmaceuticals. In: *Advanced Processing, Properties, and Applications of Starch and Other Bio-Based Polymers.* s.l.:s.n., pp. 197-214.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Saraiva, B. R. et al., 2019. Effect of Yerba Mate (Ilex paraguariensis A. St.-Hil.) Addition on The Functional and Technological Characteristics of Fresh Cheese. *J Food Sci Technol,* 56(3), pp. 1256-1265.

Seiwert, K., Kamdem, D.-P., Kocabas, D. S. & Ustunol, Z., 2021. Development and characterization of whey protein isolate and xylan composite films with and without enzymatic crosslinking. *Food Hydrocolloids,* Volume 120, pp. 1-10.

Setiani, W., Sudiarti, T. & Rahmidar, L., 2013. Preparasi Dan Karakterisasi Edible Film Dari Poliblend Pati Sukun-Kitosan. *Jurnal Kimia Valensi,* 3(2), pp. 100-109.

Shaikh, R., O'Bren, D. P., Crocker, D. M. & Walker, G. M., 2018. The development of a pharmaceutical oral solid dosage forms. In: *13th International Symposium on Process Systems Engineering.* Limerick, Ireland: s.n., pp. 27-65.

Soares, R. M. & Soldi, V., 2010. The Influence of Different Cross-linking Reactions and Glycerol Addition on Thermal and Mechanical Properties of Biodegradable Gliadin-Based Film. *Materials Science and Engineering C,* 30(5), pp. 691-698.

Soazo, M., Rubiolo, A. & Verdini, R., 2011. Effect of drying temperature and beeswax content on moisture isotherms of whey protein emulsion film. *Procedia Food Science,* pp. 210-2015.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Song, H.-g.et al., 2022. Whey protein isolate coating material for High Oxygen Barrier Properties: A Scale-Up Study From Laboratory to Industrial Scale and Its Application to Food Packaging. *Food Packaging and Shelf Life,* Volume 31.

Syamsul, E. S. & Supomo, 2014. Formulasi Serbuk Effervescent Ekstrak Air Umbi Bawang Tiwai (Eleuterine Palmifolia) Sebagai Minuman Kesehatan. *Traditional Medicine,* 19(3).

Tawakalta, A. R.-A., Egwim, E. C., Ochigbo, S. S. & Ossai, P., 2015. Effect of Acetic Acid and Citric Acid Modification on Biodegradability of Cassava starch Nanocomposite Films. *Journal of Materials Science and Engineering,* 5(9-10), pp. 372-379.

Tsakali, E., Petrotos, K., D'Alessandro, A. G. & Goulas, P., 2010. *A review on whey composition and the methods used for its utilization for food and pharmaceutical products.* Braganca, Portugal, 6th International Conference on Simulation and Modelling in the Food and Bio-Industry FOODSIM 2010.

Ustusnol & Mert, 2004. Water Solubility, Mechanical, Barrier, and Thermal Properties of Cross-linked Whey Protein Isolate-based Films. *Journal of Food Science,* 69(3), pp. 129-134.

UNIVERSITAS
GADJAH MADA
APLIKASI LAPISAN PROTEIN WHEY SEBAGAI PENGEMAS PRIMER SERBUK EFFERVESCENT A NARRATIVE REVIEW
AINISA RAHMISALSA W, Dr. apt. Adhyatmika, M.Biotech
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Wang, L., Auty, M. A. & Kerry, J. P., 2010. Physical Assessment of Composite Biodegradable Films Manufactured Using Whey Protein Isolate, Gelatin and Sodium Alginate. *Journal of Food Engineering,* 96(-), pp. 199-207.

Wijayati, M., Saptarini, N. M. & Herawati, I. E., 2014. Formulasi Granul Effervescent Sari Kering Lidah Buaya sebagai Makanan Tambahan. *Indonesian Journal of Pharmaceutical Science and Technology.*

Witt, J. d., 1998. Nutritional and Functional Characteristics of Whey Protein in Food Product. *ARSCHALL RHO ̂ NE-POULENC AWARD LECTURE,* 3(81), pp. 597-608.

Xu, Y.-p.et al., 2021. Evaluation of the properties of whey protein films with modifications. *Journal of Food Science,* 86(3), pp. 923-931.

Yoo, S. & Krochta, J. M., 2011. Whey protein–polysaccharide blended edible film formation and barrier, tensile, thermal and transparency properties. *J Sci Food Agric,* Volume 91, pp. 2628-2636.

Zang, H., Yu, D. & Sun, J., 2013. Interaction of milk whey protein with common phenolic acids. *Journal of Molecular Structure,* 1058(1), pp. 228-233.