

## DAFTAR PUSTAKA

- Ajun, W., Yan, Sun., Li, G., and Huili, Li., 2009, Preparation of Aspirin and Probuocol in Combination Loaded Chitosan Nanoparticles and In Vitro Release Study, *Carbohydr. Polym.*, 75, 566–576.
- Alishashi, A., Mirvaghefi, A., Tehrani, M.R., Farahmand, H., Shojaosadati, S.A., Dorkoosh, F.A., and Elsabee, M.Z., 2011, Shelf Life and Delivery Enhancement of Vitamin C using Chitosan Nanoparticles, *Food Chem.*, 126, 935–940.
- Bansal, V., Sharma, P.K., Sharma, N., Pal, O.P., and Malviya, R., 2011, Applications of Chitosan and Chitosan Derivatives in Drug Delivery, *Adv. Biol. Res.*, 5(1), 28–37.
- Berger, J., Reist, M., Mayer, J.M., Felt, O., Peppas, N.A., and Gurny, R., 2004, Structure and Interactions in Covalently and Ionically Crosslinked Chitosan Hydrogels for Biomedical Applications, *Eur. J. Pharm. Biopharm.*, 57, 19–34.
- Cheraghipour, E., Tammadon, A.M., Javadpour, S., and Bruce, I.J., 2013, PEG Conjugated Citrate-Capped Magnetite Nanoparticles for Biomedical Applications. *J. Magnetism Magnetic Mat.*, 328, 91-95.
- Costa, P. and Lobo, J.M.S., 2001, Review Modeling and Comparison of Dissolution Profiles, *Eur. J. Pharm. Sci.*, 13, 123–133.
- Dash, S., Murthy, P.N., Nath, L., and Chowdhury, P., 2010, Review Kinetic Modeling on Drug Release from Controlled Drug Delivery System, *Acta Poloniae Pharm.–Drug Res.*, 67(3), 217–223.
- Dastidar, T.G. and Netravali, A.N., 2012, Green Crosslinking of Native Starch with Malonic Acid and Their Properties, *Carbohydr. Polym.*, 90, 1620–1628.
- Desai, K.G.H. and Park, H.J., 2005, Encapsulation of Vitamin C in Tripolyphosphate Cross-Linked Chitosan Microspheres by Spray Drying, *J. Microencapsulation*, 22(2), 179–192.
- Desai, K.G.H., Liu, C., and Park, H.J., 2006, Characteristics of Vitamin C Encapsulated Tripolyphosphate-Chitosan Microspheres as Affected by Chitosan Molecular Weight, *J. Microencapsulation*, 23(1), 79–90.

- Dima, C., Patrascu, L., Cantaragiu, A., Alexe, P., and Dima, S., 2015, The Kinetics of the Swelling Process and the Release Mechanism of *Coriandrum sativum* L. Essential Oil from Chitosan/Alginate/Inulin, *Food Chem*, 195, 39-48.
- El-Naggar, M.E., El-Rafie, M.H., El-Sheikh, M.A., El-Feky, G.S., and Hebeish, A., 2015, Synthesis, Characterization, Release Kinetics and Toxicity Profil of Drug-Loaded Starch Nanoparticles, *Int. J. Biol. Macromol*, 81, 718-729.
- Farajzadeh, M.A. and Nagizadeh, S., 2003, A Simple and Reliable Spectrophotometric Method for the Determination of Ascorbic Acid in Pharmaceutical Preparations, *J. Anal. Chem.*, 58(10), 927-932.
- Giri, T.K., Thakur, A., Alexander, A., Ajazuddin, Badwaik, H., and Tipathi, D.K., 2012, Modified Chitosan Hydrogels as Drug Delivery and Tissue Engineering Systems: Present Status and Applications, *Acta Pharm. Sinicca B.*, 2(5), 439-449.
- Grasianto, 2014, Enkapsulasi Kurkumin dalam Nanopartikel Kitosan-Pektin Tertaut Silang Glutaraldehida dan Studi Pelepasannya Secara *In Vitro*, *Tesis*, Departemen Kimia FMIPA UGM, Yogyakarta.
- Gyawali, D., Nair, P., Zhang, Y., Tran, R.T., Zhang, C., Samchukov, M., Makarov, M., Kim, H.K.W., and Yang, J., 2010, Citric Acid-Derived In Situ Crosslinkable Biodegradable Polymers for Cell Delivery, *Biomater.*, 31, 9092-9105.
- Hamman, J.H., 2010, Chitosan Based Polyelectrolyte Complexes as Potential Carrier Materials in Drug Delivery Systems, *Mar. Drug*, 8, 1305-1322.
- Hartono, M., 2012, Meningkatkan Mutu Produk Plastik dengan Metode Taguchi, *J. Teknik Industri*, 13(1), 93-100.
- Highuci, T., 1963, Mechanism of Sustained-Action Medication. Theoretical Analysis of Rate of Release of Solid Drugs Dispersed in Solid Matrices, *J. Pharm. Sci.*, 12, 1145-1149.
- Iriawan, N. dan Astuti, S.P., 2006, *Mengolah Data Statistik dengan Mudah Menggunakan Minitab 14*, Andi Offset, Yogyakarta.
- Jyothi, N.V.N., Prasanna, P.M., Sakarkar, S.N., Prabha, K.S., Ramaiah, P.S., and Srawan, G.Y., 2010, Microencapsulation Techniques, Factors Influencing Encapsulation Efficiency, *J. Microencapsulation*, 27(3), 187-197.

- Kumari, K. and Rani, U., 2011, Controlled Release of Metformin Hydrochloride Through Crosslinked Blends of Chitosan–Starch, *Adv. App. Sci. Res.*, 2(2), 48-54.
- Li, P., Wang, Y., Peng, Z., She, F., and Kong, L., 2011, Development of Chitosan Nanoparticles as Drug Delivery Systems For 5–Fluorouracil and Leucovorin Blends, *Carbohydr. Polym.*, 85, 698–704.
- Li, H., Gao, X., Wang, Y., Zhang, X., and Tong, Z., 2013, Comparison of Chitosan/Starch Composite Film Properties Before and After Crosslinking, *Int. J. Biol. Macromol.*, 52, 275–279.
- Mano, J.F., Kaniarova, D., and Leris, R.L., 2003, Thermal Properties of Thermoplastic Starch/Synthetic Polymer Blends With Potential Biomedical Applicability, *J. Mater. Sci.: Mater. Med.*, 14, 127–135.
- Maitra, J. and Singh, N., 2014, Swelling Behaviour of Starch Chitosan Polymeric Blend, *Adv. Polym. Sci. Technol.*, 4(2), 22–27.
- Morris, G.A., Catile, J., Smith, A., Adams, G.G., and Harding, S.E., 2011, The Effect of Prolonged Storage at Different Temperatures on the Particle Size Distribution of Tripolyphosphate (TPP)–Chitosan Nanoparticles, *Carbohydr. Polym.*, 84, 1430–1434.
- Naeni, A.T., Adeli, M., and Vossoughi, M., 2010, Poly(citric acid)–block–Poly(Ethylene Glycol) Copolymer–New Biocompatibel Hybrid Materials for Nanomedicine, *Nanomedicine: Nanotechnol. Biol. Med.*, 6, 556–562.
- <sup>a</sup>Olsson, E., Hedenqvist, M.S., Johansson, C., and Jarnstrom, L., 2013, Influence Citric Acid and Curing on Moisture Sorption, Diffusion and Permeability of Starch Films, *Carbohydr. Polym.*, 94, 765–772.
- <sup>b</sup>Olsson, E., Menzel, C., Johansson, C., Andersson, R., Koch, K., and Jarnstrom, L., 2013, The Effect of pH on Hydrolysis, Cross–linking and Barrier Properties of Starch Barriers Containing Citric Acid, *Carbohydr. Polym.*, 98, 1505–1513.
- Pangestu, S.L., 2008, Desain Eksperimen Taguchi untuk Meningkatkan Kualitas *Paving Block*, *J. Teknik Industri*, 1–5.
- Ramya, R., Sudha, P.N., and Mahalakshmi, G., 2012, Preparation and Characterization of Chitosan Binary Blend, *Int. J. Sci. Res. Publications*, 2(10), 1–9.
- Ravi, P.R., Ganga, S., and Saha, R.N., 2007, Design and Study of Lamivudine Oral Controlled Release Tablets, *AAPS Pharm. Sci. Tech.*, 4(8), 1–9.

- Ritger, P.L. and Peppas, N.A., 1987, A Simple Equation for Description of Solutr Release II. Fickian and Anomalous Release from Swellable Devices, *J. Controlled Release*, 5, 37–42.
- Rodrigues, S., Rosa, A.M., and Grenha, A., 2012, Chitosan/Carrageenan Nanoparticles: Effect of Cross-linking with Tripolyphosphate and Charge Rations, *Carbohydr. Polym.*, 89, 282–289.
- Sari, N.P., 2010, Pembuatan dan Karakterisasi Bahan Tablet Vitamin C menggunakan Kitosan dan Amylum Manihot Sebagai Matriks Melalui Metode Granulasi Basah, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam USU, Medan.
- Shi, R., Zang, Z., Liu, Q., Han, Y., Zhang, L., Chen, D., and Tien W., 2007., Characterization of Citric Acid/Glycerol Co-Plasticized Thermoplastic Starch Prepared by Melt Blending, *Carbohydr. Polym.*, 69, 748–755.
- Shiau, Shi-Yen. and Lin, Yu-Hung., 2006, Vitamin Requirement of Tilapia–A Review, *Simposium Int. Nutricion Acuicola VIII*, 15–17 November.
- Sibaja, B., Culbertson, E., Marshal, P., Boy, R., Broughton, R.M., Solano, A.A., Esquivel, M., Parker, J., De La Fuente, L., Auad, M.L., 2015, Preparation of Alginate–Chitosan Fibers with Potential Biomedical Applications, *Carbohydr. Polym.*, 134, 598–608.
- Singh, P., Singh, N.P., and Yadav, R.A., 2010, Study of the Optimez Molecular Structure and Vibrational Characteristics of Neutral L–Ascorbic Acid and Its Anion and Cation Using Density Functional Theory, *J. Chem. Pharm. Res.*, 2(5), 656–681.
- Skurtys, O., Acevedo, C., Pedreschi, F., Enrione, J., Osorio, F., and Aguilera, J.M., 2010, *Food Hydrocolloid Edible Film and Coatings*, Nova Science Publishers, Chile.
- Sonia, T.A. and Sharma, C.P., 2011, Chitosan and Its Derivatives for Drug Delivery Perspective, *Adv. Polym. Sci.*, 24, 23–54.
- Srinivasan, S., Gunasekaran, S., Ponnambalam, U., Savarianandam, A., Gnanaprakasam, S., and Natarajan, S., 2005, Spectroscopic and Thermodynamic Analysis of Enolic Form of 3–oxo–L–gulofuranolactone, *Ind. J. Pure Appl. Phys.*, 43, 459–462.
- Varshosaz, J. and Alinagari, R., 2005, Effect of Citric Acid as Cross-linking Agent on Insulin Loaded Chitosan Microsheres, *Iranian Polym. J.*, 14(7), 647–656.

- Wahjudi, D. dan Alimin, R., 2000, Rekayasa Mutu Besi Beton dengan Metode Taguchi, *J. Teknik Mesin*, 2(2) 102–108.
- Xu, Y.X., Kim, K.M., Hanna, M.A., and Nag, D., 2005, Chitosan–Starch Composite Film: Preparation and Characterization, *Industrial Crops Prod.*, 21, 183–192.
- Yadav, G., Bansal, M., Thakur, N., Sargam, and Khare, P., 2013, Multilayer Tablets and Their Drug Release Kinetic Models for Oral Controlled Drug Delivery System, *Middle–East J. Sci. Res.*, 16(6), 782–795.