



## DAFTAR PUSTAKA

- Anonim, 2002, *Pedoman Pengendalian Lalat Buah*, Direktorat Perlindungan Hortikultura, Jakarta.
- Bano, R., 2014, Use of Chitosan Mosquito Repellent Finishing for Cotton Textiles, *J. Textile Sci. Eng.*, 5(4), 1-3.
- Bourtoom, T., 2008, Edible Films and Coatings: Characteristics and Properties, *Int. Food Res. J.*, 15(3), 237-248.
- Butler, B.L., Vernago, P.J., Testin, R.F., Bunn, J.M., and Wiles, J.L., 1996, Mechanical and Barier Properties of Edible Chitosan Films as Affected by Composition and Storage, *J. Food Sci.*, 5(61), 953-955.
- Coma, V., Martial-Gros, A., Garreau, S., Copinet, A. and Deschamps, A.J., 2002, Edible Antimicrobial Films Based on Chitosan Matrix, *J. Food Sci.*, 67, 1162-1169.
- Casariego, A., Souza, B.W.S., Vicente, A.A., Teixeira, J.A., Cruz, L., and Diaz, R., 2008, Chitosan Coating Surface Properties as Affected by Plasticizer, Surfactant and Polymer Concentrations in Relation to the Surface Properties of Tomato and Carrot, *Food Hydrocolloid*, 22, 1452-1459.
- Crini, G., Martel, B., and Torri, G., 2008, Adsorption of C.I. Basic Blue 9 on Chitosan-Based Materials, *Int. J. Environ. Pollut.*, 34, 451-465.
- Debeaufort, F., Martin-Polo, M., and Voilley, A., 1993, Polarity Homogeneity and Structure Affect Water Vapor Permeability of Model Edible Films, *J. Food Sci.*, 58, 426-434.
- Drew, R.A.I., Hooper, G.H.S., and Bateman, M., 1978, *Economis Fruit Flies of the South Pasific Region*, Dept. Primary Industries, Quesland.
- Duan, J., Han, C., Liu, L., Jiang, J., Li, J., Li, Y., and Guan, C., 2015, Binding Cellulose and Chitosan via Intermolecular Inclusion Interaction: Synthesis and Characterisation of Gel, *J. Spectroscopy*, 1-6.
- Dutta, P. K., and Dutta, J., 2004, Chitin and Chitosan: Chemistry, Properties and Application, *J. Sci. Ind. Res. India*, 63, 20-31.
- El-Gendy, I.R., Nasr, H.M., Badawy, M.E.I., and Rabea, E.I., Toxic and Biochemical Effect for Certain Natural Compounds on the Peach Fruith Fly, *Bactrocera zonata* (Diptera, Tephritidae), *Am. J. Biochem. Mol. Biol.*, 1-10.
- Elsabee, M. Z., and Abdou, E. S., 2013, Chitosan Based Edible Films and Coatings: A Review, *Mater. Sci. Eng. C- Bio.*, 4(33), 1819-1841.



- Fakhoury, F.M., Martelli, S.M., Bertan, L.C., Yamashita, F., Innocentini Mei, L.H., and Collares Queiroz, F.P., 2012, Edible Film Made from Blends of Manoic Starch and Gelatin–Influence of Different Type of Plasticizer and Different Levels of Macromolecules on Their Properties, *LWT – Food Sci. Tech.*, 49, 149-154.
- Gaudin S., Lourdin, D., Le Botlan, D., Ilari, J.L., and Colonna, P., 1999, Platicization and Mobility in Starch-Sorbitol Films, *J. Cereal Sci.*, 29, 273-284.
- Gennadious, A., and Weller, C.L., 1990, Edible Film and Coating from Wheat and Corn Protein. *J. Food Technol.*, 44, 63-71.
- Gionar, Y.R., 1996, Studi Pendahuluan Pengendalian Lalat dengan Menggunakan Kombinasi Atraktan Metil Eugenol, *Jurnal Pemanfaatan Bahan Alami dalam Upaya Pengendalian Populasi Organisme Pengganggu Tanaman*, 3(4), 3-6.
- Gullan, P.J., and Craston, P. S, 2005, *The Insect an Outline of Entomology*, 3<sup>rd</sup> Ed., Blackwell Science, Oxford Hill.
- Haq, R., Khan, M.F., and Haq, E., 2012, Heavy Weight Protein Affected by Lead Acetate in *Bactrocera dorsalis*, *J. Basic Appl. Sci.*, 8, 411-415.
- Isnaini, Y.N., 2013, Identifikasi Spesies dan Kelimpahan Lalat Buah *Bactrocera sp* di Kabupaten Demak, *Skripsi*, Jurusan Biologi FMIPA UNNES, Semarang.
- Jati, W.W., 2007, Repelensi Enam Macam Ekstrak Tumbuhan terhadap Oviposisi *Bactrocera carambolae* (Diptera: Tephritidae), *Skripsi*, Fakultas Pertanian, UGM, Yogyakarta.
- Kalie, M.B., 1992, *Mengatasi Buah Rontok, Busuk, dan Berulat*, Penebar Swadaya, Jakarta.
- Kardinan, A., 1998, Pengaruh Cara Aplikasi Minyak Suling *Melaleuca bracteata* dan Metil Eugenol terhadap Daya Pikat Lalat Buah *Bactrocera dorsalis*, *Jurnal Perlindungan Tanaman Indonesia*, 1(4), 38-45.
- Kardinan, A., 2000, *Pestisida Nabati, Ramuan dan Aplikasi*, Penebar Swadaya, Jakarta.
- Kerch, G., and Korkhov, V., 2011, Effect of Storage Time and Temperature on Structure, Mechanical and Barrier Properties of Chitosan-based Films, *Eur. Food Res. Technol.*, 1(232), 17-22.
- Krochta, J.M., Baldwin, E.A., and Nisperos-Carriedo, M.O., 1994, *Edible Coatings and Film to Improve Food Quality*, Economic Publ. Co., Inc., New York.
- Liu, M., Zhou, Y., Zhang, Y., Yu, C., and Cao, S., 2013, Preparation and Structural Analysis of Chitosan Films with and without Sorbitol, *Food Hydrocolloid*, 33, 186-191.



- Liu, M., Zhou, Y., Zhang, Y., Yu, C., and Cao, S., 2014, Physicochemical, Mechanical and Thermal Properties of Chitosan Films with and without Sorbitol, *Int. J. Biol. Macromol.*, 70, 340-346.
- Liu, Y., Cai, Y., Jiang, X., Wu, J., and Le, X., 2016, Molecular Interactions, Characterization and Antimicrobial Activity of Curcumin-Chitosan Based Film, *Food Hydrocolloid*, 52, 564-572.
- Maghfiroh, Sumarni, W., dan Susatyo, E.B., 2013, Sintesis dan Karakterisasi Edible Film Termodifikasi PVA dan Sorbitol, *Indo. J. Chem. Sci.*, 1(2), 1-6.
- Martínez-Camachoa, A.P., Cortez-Rochaa, M.O., Ezquerra-Brauera, J.M., Graciano-Verdugob, A.Z., Rodriguez-Félix, F., Castillo-Ortegac, M.M., Yépez-Gómez, M.S., and Plascencia-Jatomeaa, M., 2010, Chitosan Composite Films: Thermal, Structural, Mechanical and Antifungal Properties, *Carbohydr. Polym.*, 82, 305–315.
- Mehra, B.K., and Hirdhar, P.K., 2002, *Cuscuta hylina* Roth. An Insect Development Inhibitor Against Common House Mosquito *Culex quinquefasciatus* Say., *J. Environ. Biol.*, 23, 335-339.
- Nadarajah, K., Prinyawiwatkul, W., No, H.K., Sathivel, S., and Xu, Z., 2006, Sorption Behavior of Crawfish Chitosan Films as Affected by Chitosan Extraction Processses and Solvent Type, *J. Food Sci.*, 2(71), 33-39.
- Nurhayati, dan Agusman, 2011, Edible Film Kitosan dari Limbah Cangkang Udang sebagai Pengemas Pangan Ramah Lingkungan, *Squalen*, 1(6), 38-44.
- Park, S.Y., Marsh, K.S., and Rhim, J.W., 2002., Characteristics of Different Molecular Weight Chitosan Films Affected by the Type of Organic Solvents. *J. Food Sci.*, 1(67), 194-197.
- Pracaya, 1995, *Hama dan Penyakit Tanaman*, Penembar Swadaya, Jakarta.
- Pranowo, D., Apriyanto, A., Wahyuningsih, T. D., dan Suputa, 2011, Pemanfaatan Ekstrak Daun Tembakau dan Daun Selasih sebagai *Insect Ovipositing Repellent* terhadap Lalat Buah *Bactrocera carambolae*, Prosiding Seminar Nasional Kimia dan Pendidikan Kimia III, 7 Mei 2011, Surakarta.
- Purwanti, A., 2010, Analisis Kuat Tarik dan Elongasi Plastik Kitosan Terplastisasi Sorbitol, *Jurnal Teknologi*, 2(3), 99-106.
- Rinaudo, M., Pavlov, G., dan Desbrieres, J., 1999, Influence of Acetic Acid Concentration on the Solubilization of Chitosan, *Polymer*, 40, 7029-7032
- Rodríguez-Núñez, J.R., Madera-Santana, T.J., Sánchez-Machado, D.I., López-Cervantes, J., and Valdez, H.Z., 2014, Chitosan/Hydrophilic Plasticizer-Based Films: Preparation, Physicochemical and Antimicrobial Properties, *J. Polym. Environ.*, 22, 41–51.
- Rotta, J., Ozorio, R.A., Kehrwald, A.M., Barra, G.M.D., Amboni, R., and Barreto, P.L.M., 2009, Parameters of Color, Transparency, Water Solubility,



Wettability and Surface Free Energy of Chitosan/Hydroxypropyl Methylcellulose (HPMC) Films Plasticized with Sorbitol, *Mater. Sci. Eng. C-Bio.*, 2(29), 619-623.

Sembel, D.T., 2015, *Toksikologi Lingkungan*, ANDI, Yogyakarta

Setiani, W., Sudiarti, T., dan Rahmidar, L., 2013, Preparasi dan Karakterisasi Edible Film dari Poliblend Pati Sukun-Kitosan, *Valensi*, 2(3), 100-109.

Shahidi, 1999, Application of Chitin and Chitosan, *Trends Food Sci. Tech.*, 2(10), 37-51.

Silva-Weiss, A., Bifani, V., Ihl, M., Sobral, P.J.A., and Gomez-Guillen, M.C., 2013, Structural Properties of Films, and Rheology of Film-Forming Solutions Based on Chitosan and Chitosan-Strach Blend Enriched with Murta Leaf Extract, *Food Hydrocolloid*, 31, 458-466.

Siwi, S.S., Hidayat, P., dan Suputa, 2006, *Taksonomi dan Bioekologi Lalat Buah (Diptera:Tephritidae)*, Balai Besar Penelitian dan Pengembangan Bioteknologi dan Sumberdaya Genetik Pertanian, Bogor.

Soesilo, D., Santoso, R.E., dan Diyatri, I., 2005, Peranan Sorbitol dalam Mempertahankan Kestabilan pH Saliva pada Proses Pencegahan Karies, *Dent. J.*, 1(38), 25-28.

Srijanto, B., dan Paryanto I., 2005, Pengaruh Suhu pada Pembuatan Kitosan Secara Kimia, *Seminar Nasional Tahunan Hasil Penelitian Perikanan dan Kelautan*, 30 Juli 2005, Yogyakarta.

Stoll, G., 1995, *Natural Crop Protection in the Tropics*, Margraf Verlag, Weikersheim, Germany.

Sunarno, 2011, Ketertarikan Serangga Hama Lalat Buah terhadap Berbagai Papan Perangkap Berwarna Sebagai Salah Satu Teknik Pengendalian, *Jurnal Agroforestri*, 2(6), 129-134.

Suputa, Cahyaniati, A., Kustaryati, Issusilaningtyas, Railan, M., dan Mardiasih, W.P., 2006, *Pedoman Pengelolaan Hama Lalat Buah*, Direktorat Perlindungan Tanaman Hortikultura, Jakarta.

Suyatma, N.E., Tighzert, L., and Copinet, A., 2005, Effects of Hydrophilic Plasticizers on Mechanical, Thermal, and Surface Properties of Chitosan Films, *J. Agric. Food. Chem.*, 53, 3950-3957.

Syahfari, H., dan Mujiyanto, M., 2013, Identifikasi Hama Lalat Buah (Diptera: *Tephritidae*) pada Berbagai Macam Buah-buahan, *Ziraa'ah Majalah Ilmiah*, 1(36), 32-39.

Tariyani, Patty, J.A., dan Siahaya, V.G., 2013, Identifikasi Lalat Buah (*Bactrocera spp*) di Chili, Bitter Melon, Jambu dan Jambu Bol di Kota Ambon, *Agrologia*, 1(2), 73-85.



Tawatsin, A., Asavadachanukorn, P., Thavara, U., Wongsinkongman, P., Bansidhi, J., Boonruad, T., Chavalittumrong, P., Soonthornchareonnon, N., Komalamisra, N., and Mulla, M. S., 2006, Repellency of Essential Oils Extracted from Plants in Thailands Against Four Mosquito Vector (Diptera: Culicidae) and Oviposition Deterrent Effects Againts *Aedes Aegyti* (Diptera: Culicidae), *J. Trop. Med. Public Health*, 5(37), 915-931.

Teo, G., Suzuki, Y., Uratsu, S.L., Lampinen, B., Ormonde, N., Hu, W.K., Dejong, T.M., and Dandekar, A.M., 2006, Silencing Leaf Sorbitol Synthesis Alters Long-Distance Partitioning and Apple Fruit Quality, *Proceedings of the National Academy of Sciences of the United States of America*, 49(103), 18842-18847.

Tezotto-Uliana, J.V., Fargoni, G.P., Geerdink, G.M., and Kluge, R.A., 2014, Chitosan Application Pre or Postharvest Prolong Raspberry Shelf-life Quality, *Postharvest Bio. Tech.*, 91, 72-77.

Thirathumthavorn, D., and Charoenrein, S., 2007, Aging Effects on Sorbitol and Noncrystallizing Sorbitol-Plasticized Tapioca Starch Films, *Starch-Starke*, 10(59), 493-497.

Warkoyo, Rahardjo, B., Marseno, D.W., Karyadi, J.N.W., 2014, Sifat Fisik, Mekanik dan Barier Edible Film Berbasis Pati Umbi Kimpul (*Xanthosoma sagittifolium*) yang Diinkorporasi dengan Kalium Sorbat, *Agritech.*, 1(34), 72-81.

White, I.M. and Elson-Harris, M.M., 1992, *Fruit Flies of Economic Significance. Their Identification and Bionomic*, CABI, Wallingford.

Xiaowu, W., 2015, Horticultural Plant Journal: A New International Scientific and Technical Journal Covering Horticultural Science, *Hortic. Plant J.*, 1(1), 1-2.

Yee, L.W., 2010, Yeast Extract: Sucrose Ratio Effects on Egg Load, Survival, and Mortality Caused by GF-120 in Western Cherry Fruit Fly (Diptera: Tephritidae), *Fla. Entomol.*, 3(93), 422-431