

## DAFTAR PUSTAKA

- Aranaz, I., Harris , R., & Heras, A. (2010). Chitosan Amphiphilic Derivatives Chemistry and Applications. *Current Organic Chemistry*, 14, pp. 308-330.
- Avadi, R., Mahdavinia , A., Sadeghi , M., & Erfan, M. (2004). Synthesis and Characterization of N- Diethyl Methyl Chitosan. *Iranian Polymer Journal*, 13(5), pp. 431-436.
- Bobu, E., Nicu , R., Lupei, M., Ciolacu, F., & Desbr. (2011). Synthesis and Caracterization of N-alkyl Chitosan for Papermaking Applications. *Cellulose Chemistry and Technology*, 45 (9-10), pp. 619-625.
- Cervera, Fernandez, M., Heinamaki, J., & Rasanen, M. (2004). Solid-state Characterization of Chitosans Derived from Lobster Chitin. *Carbohydrate Polymers*, 58, pp. 401–408.
- Chendhawati. (2008). *100 Resep Kue Kering Andalan Ny. Liem*. Jakarta: Gramedia Pustaka Utama.
- Chotiah, S. (2012). The Pathogenic Bacteria which Probable to be Found in Cow Milk and its Prevention. *Semiloka Nasional Prospek Industri Sapi Perah Menuju Perdagangan Bebas – 2020* (hal. 259-271). Bogor: Balai Besar Penelitian Veteriner.
- Dachriyanus. (2004). *Analisis Struktur Senyawa Organik Secara Spektroskopi*. Padang: Lembaga Pengembangan Teknologi Informasi dan Komunikasi.
- Damayanti, W., Emma, R., & Zahidah, H. (2016). Aplikasi Kitosan Sebagai Antibakteri pada Fillet Patin Selama Penyimpanan Suhu Rendah. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 19(3), pp. 321-328.
- De Britto. (2011). Quaternary Salt of Chitosan: History, Antimicrobial Features and Prospect. *International Journal of Carbohydrate Chemistry*, Article ID 312539, 12 pages.
- Dewi, R. S., & 'Aziz, S. (2011). Isolasi Rhizopus oligosporus pada Beberapa Inokulum Tempe di Kabupaten Banyumas. *Molekul*, 6(2), pp. 93-104.
- Dwidjoseputro, D. (2005). *Dasar-dasar Mikrobiologi*. Jakarta: Djambatan.
- Fardiaz, D. (2006). *Kriteria Tata Laksana Penilaian Produk Pangan Cetakan Kedua*. Jakarta: Badan Pengawas Obat dan Makanan.
- Gandjar, Indrawati, & Sjamsuridzal, O. (2006). *Mikologi Dasar dan Terapan*. Jakarta: Gramedia Pustaka.
- Gyliene, O, Razmute, I, Tarozaite, R dan Nivinskiene, O. (2003), Chemical Composition and Sorption Properties of chitosan Produced from Fly larva Shells. *Chemija (Vilnius)*, 14(3), pp. 121-127.

- Guo, Z. Y., Xing, R. G., Liu, S., Zhong, Z. M., & Ji. (2007). The Influence of the Cationic of Quaternized Chitosan on Antifungal Activity. *International Journal of Food Microbiology*, 118, pp. 214-217.
- Harmita, Radji, M., (2008). *Buku Ajar Analisis Hayati*. Jakarta: EGC.
- Hernández, -O. L., Gonzales-Gonzales, A., & Gutierrez-Mendez, N. (2011). Study of the Antibacterial Activity of Chitosan-based Films Prepared with Different Molecular Weights Including Spices Essential Oils and Functional Extracts as Antimicrobial Agents. *Mexicana de Ingenieria Quimica Journal*, 10, 455–463.
- Khan, T. A., Peh , K. K., & Cheng, H. S. (2002). Reporting Degree of Deacetylation, Values of Chitosan: The Influence of Analytical Methods. *Journal of Pharmacy & Pharmaceutical Science*, 5(3), pp. 201-212.
- Khopkar, S. M. (2003). *Konsep Dasar Kimia Analitik*. Jakarta: Universitas Indonesia Press.
- Khor, E. (2001). *Chitin:Fulfilling a Biomaterial's Promise*. Elsevier Science, Singapore. Chapter 1, 63-69.
- Kuete V, Kamga , J., Sandjo , L., Ngameni B, Poumale , H., Ambbasa , P., (2011). Antimicrobial Activities of the Methanol Extract, Fractions and Compounds from *Ficus polita* Vahl. (*Moraceae*). *Complementary and Alternative Medicine*, 11(6), pp. 1-6.
- Kurniasih, M., Dewi, R. S., Purwati, Hermawan, D., & Aboul-Enein, H. Y. (2017). Synthesis, Characterization and Antifungal Activity of N-Methyl Chitosan and Its Application on the Gauze. *Bentham Science*, 13(4), pp. 107-118.
- Kurniasih, M., Purwati, & Dewi, R. S. (2018). Toxicity Test, Antioxidant Activity, and Antimicrobial Activity of Chitosan. *IOP Conference Series: Materials Science and Engineering* (hal. 349(1)). IOP Publishing Ltd.
- Liu, N., Chen, X.G., Park, H.J., Liu, C.G & Liu, C.S., (2006). Effect of MW and Concentration of Chitosan on Antibacterial Activity of *Escherichia coli*. *Carbohydrate Polymer*, 64, pp. 60-65
- Liu, X. F., Guan, Y. L., Yang, D. Z., Li, Z., & Yao, K. D. (2000). Antibacterial Action of Chitosan and Carboxymethylated Chitosan. *Journal of Applied Polymer Science*, 79, pp. 1324-1335.
- Makuuchi, K. (2008). Comparative Analysis of Hydrogel and Oligo-Chitosan. *EB System Corporation*, pp. 1–6.

- Nikmawahda, H.T., Sugita, P & Arifin, B. (2015). Synthesis and Characterization of N-alkylchitosan as Well as its Potency as a Paper Coating Material. *Advances in Applied Sciences Research.* 6(2), pp.141-149.
- No, H. K., N. Y. Park., S, H. Lee., Hwang, J. H., & S, P. Mayers. (2002). Antibacterial Activities of Chitosans and Chitosan Oligomers with Different Molecular Weights on Spoilage Bacteria Isolated from Tofu. *Journal of Food Science*, 67(4), pp. 1511-1514.
- Noverita, Fitria, Dinah., & Ernawati, S. (2009). Isolasi dan Uji Aktivitas Antibakteri Jamur Endofit dari Daun dan Rimpang *Zingiber ottensii*. *Jurnal Farmasi Indonesia*, 4(4), pp. 171-176.
- Onesippe C, & Lagerge S. (2008). Study of the Complex Formation Between Sodium dodecyl sulfate and Hydrophobically Modified Chitosan. *Carbohydrate Polymer*, 74, pp. 648-658.
- Pamekas, T., Sumardiyono, C., Pusposendjojo, N., & Indradewa, D. (2009). Ekstraksi, Karakterisasi dan Daya Penghambatan Kitosan Alami Terhadap Jamur *Colletotrichum musae* Secara In Vitro. *Jurnal Perlindungan Tanaman Indonesia*, 15(1), pp. 39-44.
- Pitt, J.I., Hocking, A. D. (2009). *Fungi and Food Spoilage*. Third Edition. New York: Springer Science+ Bussines Media.
- Pratiwi, S. T. (2008). *Mikrobiologi Farmasi*. Jakarta: Erlangga.
- Purwoko , T. (2007). *Fisiologi Mikroba*. Jakarta: Bumi Aksara.
- Rabea EI, Mohamed EB, Tina MR, Christian VS, Monica H, Walter S, Guy S. (2005). Insecticidal and fungicidal activity of new synthesized chitosan derivatives. *Pest Management Science*. 61, pp. 951-960.
- Radji, M. (2005). Peranan Bioteknologi dan Mikroba Endofit dalam Pengembangan Obat Herbal. *Majalah Ilmu Kefarmasian*, 3, pp. 113-124.
- Resmila, D., & Endang, S. S. (2016). Aktivitas Antifungi Kitosan Terhadap Kapang Kontaminan pada Ikan Kayu. *Prosiding Symbion (Symposium on Biology Education)* (hal. 435-444). Yogyakarta: Pendidikan Biologi FKIP Ahmad Dahlan.
- Rogis, A., Pamekas, T., & Mucharromah. (2007). Karakteristik dan Uji Efikasi Bahan Senyawa Alami Chitosan terhadap Patogen Pascapanen Antraktosa. *Jurnal Ilmu Pertanian Indonesia*, 9(1), pp. 58-63.
- Runnarsson, O. V. (2010). Antibacterial Activity of N-quaternary Chitosan Derivates: Synthesis, Characterization and Structure Activity Relationship (SAR) Investigation. *European Polymer Journal*, 46, pp. 1251-126.
- Santos, D. A., & Hamdan, J. S. (2005). Evaluation of Broth Microdilution Antifungal Susceptibility Testing Conditions for *Trichophyton rubrum*. *Journal of Clinical Microbiology*, 43(4), pp. 1917–1920.

- Sarwono, R. (2010). Pemanfaatan Kitin Kitosan sebagai Bahan Antimikroba. *Jurnal Kimia Terapan Indonesia*, 12(1), pp. 32-38.
- Sastrohamidjojo, H. (2007). *Spektroskopi*. Yogyakarta: Liberty.
- Schlegel, H. G., & K., S. (2004). *Microbiology Six Edition. (Terjemahan Mikrobiologi Umum edisi Keenam. Diterjemahkan Oleh Tedjo Baskoro)*. Yogyakarta: Universitas Gadjah Mada.
- Solomons, T., & Fryhle , C. (2011). *Organic Chemistry. Ed ke-10*. New Jersey(US): J Wiley.
- Sugita, P., Sjahriza, A., & Rachmanita. (2006). Sintesis dan Optimalisasi Gel Kitosan Karboksimetil Selulosa. *Jurnal Alchemy*, 6, pp. 57-62.
- Sugita, P., Wukirsan, T., Sjahriza, A., & Wahyono. (2009). *Kitosan Sumber Biomaterial Masa Depan*. Bogor: IPB Press.
- Surjowardojo, Puguh., Eko Susilorini, Tri., Benarivo,Vasco. (2016). Daya Hambat Dekok Kulit Apel Manalagi (*Malus sylvestris Mill*) Terhadap Pertumbuhan *Escherichia coli* dan *Streptococcus agalactiae* Penyebab Mastitis pada Sapi Perah. *Jurnal Ternak Tropika*, 17(1), pp. 11-21.
- Susanto, D., Sudrajat & R , R. (2012). Studi Kandungan Bahan Aktif Tumbuhan Meranti Merah (*Shorea leprosula Miq*) sebagai Sumber Senyawa Antibakteri. *Mulawarmnan Scientific*, 11(2), pp. 181-190.
- Tan, H., Ma, R., Lin C, Liu , Z., & Tang, T. (2013). Quaternized Chitosan as an Antimicrobial Agent:Antimicrobial Activity, Mechanism of Action and Biomedical Applications in Orthopedics. *International Journal Molecule Scence*, 14(1).
- Widyaningsih, T. D & Murtini, E. S. (2006). *Alternatif Pengganti Formalin Produk Pangan*. Surabaya: Trubus Agrisarana.
- Yunita, M., Hendrawan, Y., & Yulianingsih, R. (2015). Analisis Kuantitatif Mikrobiologi pada Makanan Penerbangan (Aerofood ACS) Garuda Indonesia Berdasarkan TPC (Total Plate Count) Dengan Metode Pour Plate. *Jurnal Keteknikan Pertanian Tropis dan Biosistem*, 3(3), pp. 237-248 .
- Zahiruddin, W., Ariesta, A., & Salamah, E. (2008). Karakterisasi Mutu dan Kelarutan Kitosan dari Ampas Silase Kepala Udang Windu (*Penaeus monodon*). *Jurnal Buletin Teknologi Hasil Perikanan*, 11(2), pp. 140-151.
- Zheng, H., Zhu, J., & Samia, A. (2003). Fabrication of Doublewalled TiO<sub>2</sub> Nanotubes with Bamboo Morphologyvia One-step Alternating Voltage Anodization. *Electrochemistry Communications*, 13(9), pp. 1013-1015.