

DAFTAR PUSTAKA

- Adila, R., Nurmiati., Agustien, A, 2013, **Uji Antimikroba Curcuma spp. Terhadap Pertumbuhan Candida albicans, Staphylococcus aureus dan Escherichia coli**, *Jurnal Biologi Universitas Andalas*, 2(1): 1-7.
- Agusnar, H., 2006, **Penggunaan Glutaraldehid Kitosan untuk Penurunan Konsentrasi Ion Logam Cr³⁺ menggunakan Ekstraksi Fasa Padat**, *Disertasi USU*.
- Alvarez, J., Shoichet, B., 2005, *Virtual Screening in Drug Discovery*, Taylor and Francis, LLC, (www.copyright.com)
- Andhika, D., Trjoko., Hanani, Y., 2013, **Kadar Sisa Chlor Dan Kandungan Bakteri E.coli Perusahaan Air Minum Tirta Moedal Semarang Sebelum Dan Sesudah Pengolahan**, *Jurnal Kesehatan Masyarakat*, Vol. 2 (<http://ejournals1.undip.ac.id/index.php/jkm>)
- Atkins, P.W., 1997, *Kimia Fisika Jilid 2*, Jakarta: Erlangga.
- Bégin, André., Van Calsteren, Marie-Rose., 1999, **Antimicrobial Films Produced from Chitosan**, *International Journal of Biological Macromolecules*, 2: 63-67.
- Bhuvana, L., 2006, **Studies on Frictional Behaviour of Chitosan-Coated Fabrics**, *Aux. Res. J.*, 6(4): 123-130.
- Brady, J.E., 1990, *General Chemistry: Principles and Structure*, Wiley; 5th edition.
- Ciechanska, D., 2004, **Multifunctional Bacterial Cellulose/Chitosan Composite Materials for Medical Applications**, *Fiber Textiles in Eastern Europe*, 12(4): 69-72
- Chen, X. G., Park, H. J., 2003, **Chemical Characteristics of O-Charboxymethyl Chitosans Related to the Preparation Conditions 1. Carbohydr Polymers**, 53(4): 355 – 359.
- De Abreu, F.R., Campana-Filho, S.P. 2008. **Characteristics and Properties of Carboxymethyl Chitosan**. (<http://www.elsevier.com/locate/carbpol>)
- Dharmawan, I.W.E., Kawuri, R., Parwanayoni, M.S., 2009, **Isolasi Streptomyces spp Pada Kawasan Hutan Provinsi Bali Serta Uji Daya Hambatnya**

- Terhadap Lima Strain Diarrheagenic *Escherichia coli*, Jurnal Biologi XIII, 1: 1-6.**
- Dodgen, Taylor., 2008, ***Escherichia coli* and Antibiotic Resistance to Tetracycline Antibiotics**, Senior Thesis Liberty University.
- Dwidjoseputro, 1978, *Dasar-Dasar Mikrobiologi*, Jakarta: Djambatan.
- Foloppe, N., Chen, I, J., 2009, **Conformational Sampling and Energetics of Drug-like Molecules**, *Current Medicinal Chemistry*, 16: 3381–3413.\
- Ganiswarna, S, G., 1995, *Farmakologi dan Terapi Edisi 4*, Jakarta: Fakultas Kedokteran Universitas Indonesia.
- Garriga, J.B., Huger, M., Aymerich, M.T., Monfort, J.M., 1993, **Activity of Lactobacilli Form Fermented Sausage**, *Journal of Applied Bacteriology*, 75:142-148.
- Gritter, R.J., Bobbitt, J.M., Schwarting, A.E., 1991, *Pengantar Kromatografi*, Bandung: Penerbit ITB.
- Gunawan, P.W., Elin, Y.S., Soediro, I., 1999, **Uji Antiinfeksi pada Punggung Kelinci dan Telaah Fitokimia Ekstrak Etil Asetat dan Etanol Daun Ketimun dan Babadotan**, *Tesis Sekolah Farmasi ITB*.
- Hafdani, F.N. and Sadeghinia. N., 2011, **A Review on Application of Chitosan as a Natural Antimicrobial**, *World Academy of Science Engineering and Technology*, Vol.50.
- Harniza, Yulika., 2009, **Pola Resistensi Bakteri yang Diisolasi dari Bangsal Bedah Rumah Sakit Cipto Mangunkusumo Pada Tahun 2003-2006**, *Fakultas Kedokteran Universitas Indonesia*.
- Helander, E.L., Nurmiaho-Lassila, Ahvenainen, R., Rhoades J, Roller, S., 2001, **Chitosan Disrupts The Barrier Properties of The Outer Membrane of Gram-Negative Bacteria**, *International Journal of Food Microbiology*, 71: 235–244.
- Hui, L., Yumin, D., Xiaohui, W., Liping, S., 2004, **Chitosan Kills Bacteria through Cell Membrane Damage**, *International Journal of Food Microbiology*, 95:147– 155.
- Kaban, J., 2009, **Modifikasi Kimia dari Kitosan dan Aplikasi Produk yang Dihasilkan**, *Pidato Pengukuhan Guru Besar*, Medan: Kimia FMIPA USU.

Kementerian ESDM, 2012, Data Statistik Gas Bumi (<http://www.esdm.go.id/publikasi.html>)

Kementerian Keuangan Republik Indonesia, 2009, **Nota Keuangan dan Rancangan Anggaran Pendapatan dan Belanja Negara Tahun Anggaran 2009.**

Ketaren, S., 1986, *Pengantar Teknologi Minyak dan Lemak Pangan*, Jakarta: UI-Press.

Killay, Amos., 2013, **Kitosan Sebagai Antibakteri Pada Bahan Pangan Yang Aman Dan Tidak Berbahaya**, Prosiding FMIPA Universitas Pattimura, pages: 200-205.

Kim, S., 2011, *Chitin, Chitosan, Oligosaccharides and Their Derivatives Biological Activities and Applications*, CRC Press Taylor & Francis Group, United States of America.

Kurosh, R.M., Dehghan, N., 2014, **Application of Cellulose/Chitosan Grafted Nano-Magnetites as Efficient and Recyclable Catalysts for Selective Synthesis of 3-indolylindolin-2-ones**, *Journal of Molecular Catalysis A: Chemical*, 392: 97-104.

Kusmawati, Y., 2006, *Mengenal Lebih Dekat Kitosan*, Bandung: Program Studi Kimia Fisik ITB.

Liang, X., Wang, H., Tian, H., Luo, H., & Cheng, J., 2008, **Synthesis, Structure and Properties of Novel Quaternized Carboxymethyl Chitosan with Drug Loading Capacity**, *Acta Phys-Chim.Sin*, 24: 223-229.

Mares, J., Kumaran, S., Gobbo, M., Zerbe, O., 2009, **Interactions of Lipopolysaccharide and Polymyxin Studied by NMR Spectroscopy**, *The Journal of Biological Chemistry*, 284(17): 11498–11506.

Mishra, C., Lambert, J., 1996, **Production of Antimicrobial Substances by Probiotics**, *Asia Pasifik Journal of Clinical Nutrition*, 5(1): 20-24.

Morhsed, A., Bashir, A., Khan, M.H. dan Alam, M.K., 2011. **Antibacterial Activity of Shrimp Chitosan Against some Local Food Spoilagebacteria and Food Borne Pathogens**, *Bangladesh Journal Microbiol*, 28(1): 45-47.

Mourya, V.K., Inamdar, N.N., Tiwari, A., 2010, **Carboxymethyl Chitosan and its Applications**, *Adv. Mat. Lett*, 1(1): 11-33.

- Muzzarelli, R.A.A., Muzzarelli, C., Terbojevich, M., 1997. **Chitin Chemistry. Upgrading a Renewable Resource.** *Carbohydrate In Europe*, 19: 10-17.
- Nada, A.M.A., El-Sakhawy, M., Kamel, S., Eid, M.A.M., Adel, A.M., 2005, **Effect of Chitosan and its Derivativeson the Mechanical and Electrical Properties of Paper Sheets,** *Egypt. J. Solids*, 28 (2): 359-377.
- Nikaido, H., 1996, **Outer Membran In: Escherichia coli and Salmonella lyphimurium: Cellular and Molecular Biology**, Neidhardt, F.O (Ed), *American Society of Microbiology Press*, 67: 29-47.
- Nurainy, F., Rizal, S., Yudiantoro., 2008, **The Effect of Chitosan Concentrations on the Antibacterial Activiry with Gel Diffusion/Well Method,** *Jurnal Teknologi Industri dan Hasil Pertanian*, 13(2): 117-125.
- No, H.K., Lee, S.H., Park, N.Y., Meyers, S.P., 2003, **Comparison of Pshycochemical, Binding and Antibacterial Properties of Chitosans Prepared without and with Deproteinization Process,** *J.Agric. Food Chem*, 51: 7659-7663
- Pang, H.T., Chen, X.G., Park, H.J., & Keneddy, J.F., 2007, **Preparation and Rheological Properties of Deoxycholate Chitosan and Carboxymehyl-Chitosan in Aqueous System.** *Carbohydrate polymer*, 69: 419-425.
- Pelczar, M, J., Chan, E, C, S., 2005, *Dasar-Dasar Mikrobiologi Jilid 2*, Jakarta: Penerbit Universitas Indonesia.
- Prihandana, R., Hendroko, R., 2007, *Energi Hijau Pilihan Bijak Menuju Negeri Mandiri Energi*, Jakarta: Penebar Swadaya.
- Schneider, G., Baringhaus, K, H., 2008, **Molecular Design: Concepts and Applications**, WILEY-VCH.
- Smith-Kearny, P, F., 1988, *Genetic Elements in Escherichia coli*, Macmillan Molecular Biology Series, London.
- Suhardiyono, L., 1995, *Tanaman Kelapa, Budidaya dan Pemanfaatannya*, Yogyakarta: Kanisius.
- Susanti, 2003, **Pengaruh Nisbah Selulosa-Asetat Anhidrida dan Waktu Asetilasi terhadap Karakteristik Selulosa Asetat pada Proses Produksi Membran Selulosa Asetat**, Skripsi tidak diterbitkan, Bogor: Fakultas Teknologi Pertanian IPB.

- Suyanto., Darmokoesoemo, H., Ruriyanti, R., Anggara, L.A., 2015, **Application Chitosan Derivatives as Inhibitor Corrosion on Steel with Fluidization Method**, *Journal of Chemical and Pharmaceutical Research*, 7(2): 260-267.
- Suyanto., Wafiroh, S., Darmokoesoemo, H., Ratri, N., Ruriyanti, R., Sany, K., 2015, **Grafting of Chitosan as Adsorbent Cr(VI) from Water with Adsorption-Fluidization Method**, *Journal of Chemical and Pharmaceutical Research*, 7(1): 247-254.
- Taylor, J. B., Triggle, D. J., 2006, **Comprehensive Medicinal Chemistry II Volume 4: Computer-Assisted Drug Design**, 4: 193-124.
<http://www.elsevier.com/>
- Underwood, A.L., Day Jr, R.A., 1986, *Analisis Kimia Kuantitatif*, Jakarta: Penerbit Erlangga
- Wafiroh, S., 2009, **Aplikasi Membran Kitosan dari Limbah Cangkang Udang Crosslink Glutaraldehid pada Produksi Biodiesel dari Minyak Nyamplung**, Surabaya: Universitas Airlangga.
- Wang, J., Zheng, X., Wu, H., Zheng, B., Jiang, Z., Hao, X., Wang, B., 2007, **Effect of Zeolites on Chitosan/Zeolite Hybrid Membranes for Direct Methanol Fuel Cell**, *Power Sources*, Vol. 178 pages:9-19.
- Wang, L., & Wang. A., 2008, **Adsorption Properties of Congo Red from Aqueous Solution onto N,O Carboxymethyl-Chitosan**. *Bioresource Technology*. Vol. 99 page: 1403-1408.
- Xue, X., Li, L., & He, J. 2009. **The Performance of Carboxylmethyl Chitosan in Wash Off Reactive Dyes**. *Carbohydrate Polymer*, Vol. 75 page: 203-207.
- Zein, Umar., Sagala, K.H., Ginting, Josia., 2004, **Diare Akut Disebabkan Bakteri**, *Fakultas Kedokteran Universitas Sumatera Utara*.