

- Adour, L. Arbia, W. Amrane, A. Mameri, N. 2008. Combined used of waste material-recovery of chitin from shrimp shells by lactic acid fermentation supplemented with date juice waste or glucose. *J Chem. Technol Biotechnol.* **83**. 1664 – 1669.
- Axelsson, Lars. 2004. *Lactic Acid Bacteria : Classification and Physiology*. p19-69. In Seppo Salminen (ed) *Lactic Acid Bacteria Microbiological and Functional Aspects*. Marcel Dekker, Inc.
- Beaney, P. Lizardi-Mendoza, J. Healy, M. 2005. Comparison of chitin produced by chemical and bioprocessing methods. *J Chem Technol Biotechnol.* **80**. 145-150.
- Brodelius, P. Vandamme, E.J. 1987. *Immobilized cell systems*. 407 – 463. In H.J. Rehm and G. Reed (ed) *Biotechnology Chapter 8*. VCH Pub.
- Burrows F, Louime C, Abazinge M. 2007. Extraction and Evaluation of Chitosan from Crab Exoskeleton as a Seed Fungicide and Plant Growth Enhancer. *J. Agric. & Environ. Sci.*, **2** : 103-111.
- Charoenvuttitham P, Shi J, Mittal GS. 2006. Chitin Extraction from Black Tiger Shrimp (*Penaeus monodon*) waste using organic acids. *Separation Science and Technology*, **41**. 1135-1153.
- Cock, L.S. Stouvenel, A.R. 2006. Lactic acid production by a strain of *Lactococcus lactis subsp. lactis* isolated from sugar cane plants. *Journal of Biotechnology.* **9**. 40 – 45.
- Copeland, R.A. 1994. *Methods for Protein Analysis, a Practical Guide to Laboratory Protocols*. p11+228. Chapman and Hall.
- Denkova, Z. Krastanov, A. Murgov, I. 2004. Immobilized lactic acid bacteria for application as dairy starters and probiotic preparations. *J Gen. Appl. Microbiol.* **50**. 107 – 114.

- Gritter.R.J., Bobbit.M.J., Schwarting.A.E. 1991. *Pengantar Kromatografi*. Terjemahan dari : *Introduction to chromatography*. Oleh Padmawinata.K. Penerbit ITB. Bandung. 10a+266 hlm.
- Guang fei Xu, Xiaodong Huang, Lianglin Xiu, Jinbiao Wu, Yinqing Hu. (2007).Mechanism study of chitosan on lipid metabolism in hyperlipidemic rats. *Asia Pac J Clin Nutr*, **16** :313-317.
- Healy, M. Green,A. 2003. Bioprocessing of marine Crustacean shell waste. *Acta Biotechnol.***23**. 151- 160.
- Jung, W.J. Jo, G.H. Kuk, J.H. Kim, K.Y. 2005. Extraction of chitin from red crab shell waste by cofermentation with *Lactobacillus paracasei* subsp tolerans KCTC-3074 and *Serratia marcescens* FS-3. *Applied Microbiology Biotechnology*. (2003)
- Kierstan, M.P.J. Coughlan, M.P. 1985. *Immobilisation of cells and enzymes by gel entrapment*. 39-48. In J Woodward (ed) *Immobilised cells and enzymes, a practical approach*. IRL Press.
- Kumar, M.N.V.R. 1999. Chitin and chitosan fibres : a review. *Bulletin Material Science*. **22**. 905-915.
- Kumar, M.N.V.R. 2000. A review of chitin and chitosan application. *J. Reactive & Functional Polymers*. **46**. 1 -27.
- Li, Ping et al. (2008).Chitosan–Alginat Nanoparticles as a Novel Drug Delivery System for Nifedipine. *International J of Biomed Sci.***4**.221-228.
- Lukito, A.L. 2007. Modifikasi Penggabungan Bio dan Kimia Proses Untuk Produksi Kitin. Jurusan Kimia FMIPA Universitas Nusa Bangsa. 2007.
- Lowry, O.H. Rosebrough, N.J. Farr, A.L. Randall, R.J. 1951. Protein measurement with the Folin phenol reagent. *The Journal of Biological Chemistry*. 265 – 275.
- Marczyński Z, Bodek KH. (2007).Chitosan as an adjuvant substance in the production of tablets from *Epilobium parviflorum* Schreb. extract. *Polish Chitin Society, Monograph XII*.

- Narayanan, N. Roychoudhury, P.K. Srivastava, A. 2004. L (+) lactic acid fermentation and its product polymerization. *Journal of Biotechnology ISSN. 7.* 167 – 179.
- Orive, G. Hernandez, R.M. Gascon, A.R. Pedraz, J.L. 2006. Encapsulation of cells in alginat gels. In J.M. Guissan (ed) *Methods in biotechnology, Immobilization of enzymes and cells* 2nd ed. Humana Press.
- Paul.W., Sharma.C.P. 2004. Chitosan and alginat wound dressing : a short review. *Trends Biomaterial Artif. Organs.* **18.** 18-23.
- Putra.E.D.L. 2004. Kromatografi Cair Kinerja Tinggi Dalam Bidang Farmasi. FMIPA Univ. Sumatera Utara.*USU digital library.*
- Roberts GAF. 2008. Thirty years of progress in chitin and chitosan. *Progress on chemistry and application of chitin and its derivatives.* Volume **XIII.** 7-15.
- Rao, M.S. Munoz, J. Stevens, W.F. 2000. Critical factors in chitin production by fermentation of shrimp biowaste. *J. Appl Microbiol Biotechnol.* **54.** 808 – 813.
- Rao, M.K. Stevens, W. 2006. Fermentation of shrimp biowaste under different salt concentrations with amylyolytic and non amylyolytic *Lactobacillus* strains for chitin production. *Food Technology Biotechnology.* **44.** 83 – 87.
- Rao.G.D.J., Balasubramanian. N.N., William.B.J., Prathaban.S. 2007. Clinical evaluation of chitin and chitosan in the management of wounds. *J. Veterinary & Animal Sciences.* **3.** 160-163.
- Razdan, A., Pettersson, D. 1994. Effect of chitin and chitosan on nutrient digestibility and plasma lipid concentration in broiler chickens. *British Journal of Nutrition.* **72.** 277-288.
- Sadikin.M. 2002. *Biokimia Enzim.* Widya Medika.p10+379
- Sini,K.T. Santhosh,S. Mathew, P.T. 2007. Study on the production of chitin and chitosan from shrimp shell by using *Bacillus subtilis* fermentation. *J.Carbohydrate Research.***342.**2423-2429.

- Subramanyam, C and Rao, S. L. N. 1987. An enzymic method for the determination of chitin and chitosan in fungal cell walls. *J.Bioscience*. **12**. 125–129.
- Tiyaboonchai,W. 2003. Chitosan Nanoparticles : A Promising System for Drug Delivery. *Naresuan University Journal*. **11**. 51-66.
- Underwood.A.L., Day.R.A. 1988. *Analisa Kimia Kuantitatif*. Terjemahan dari : *Quantitative Analysis*, 4th edition. Oleh : Soendoro.R. Penerbit Erlangga. 13a+872hlm.
- Vongchan, P. 2003. Anticoagulant activities of the chitosan polysulfate synthesized from marine crab shell by semi-heterogeneous conditions. *J. Science Asia*. **29**. 115-120.
- Waldeck, J. Daum, G. Bisping, B. Meinhardt, F. 2006. Isolation and molecular Characterization of chitinase-deficient *Bacillus licheniformis* strain capable of deproteinization of shrimp shell waste to obtain highly viscous chitin. *J. Applied and Environmental Microbiology*. **72**. 7879 – 7885.
- Walsh, K.A. Wilcox. 1981. *Methods in Emzymology, Proteolytic Enzymes*. Vol XIX. Edited by Perlman, G.E and Lorand, L. p919. Academic Press.
- Yadavs AV. ,Bhise SB. 2004. Chitosan: A potential biomaterial effective against typhoid. *Current Scienc.*, **87**.1176-1178.
- Yu Shi, Shih, Ing-Lung,S. Tzeng,Y.M. Wang, S.L. 2000. Protease produced by *Pseudomonas aeruginosa* K-187 and its application in the deproteinization of shrimp and crabs shell wastes. *J. Enzyme and Microbial Technology*. **27**. 3-10.