DAFTAR PUSTAKA

Abdel, F. W., Hammad, T. 2001. Chondroitin sulfate and glucosamine: A review of their safety profile. Journal American Nutraceutical Association 3: 16-23.

Afridiana, N. 2011. Recovery glukosamin hidroklorida dari cangkang udang melalui hidrolisis kimiawi sebagai bahan sediaan suplemen osteoarthritis [skripsi]. Bogor: Institut Pertanian Bogor.

Alphan, J. V.1929. Preparation of glucosamine hydrochloride. Chemistry Weekblad 26: 602.

Anderson, J. W., Nicolosi, R. J., Borzelleca, J. F. 2005. Glucosamine effects in humans: a review of effects on glucose metabolism, side effects, safety considerations and efficacy. Food and Chemical Toxicology 43:187-201.

Association of Official Analytical and Chemistry (AOAC). 1995. Officials Methods of Analysis of AOAC Internasional. Virginia: Association of Official Analytical and Chemistry Inc.

Association of Official Analytical Chemistry (AOAC). 2005. Official Methods of Analysis. 18th Ed. Maryland: Association of Official Analytical Chemists Inc.

Association of Official Analytical and Chemistry (AOAC). 2007. Officials Methods of Analysis. 18th Ed. Association of Official Analytical and Chemistry Inc., Maryland.

American Society for Testing and Materials (ASTM). 2002. D1110 Test Methods for Water Solubility. West Conshohocken: ASTM International.

Bastaman, S. 1989. Studies on degradation and extraction of chitin and chitosan from prawn shella. belfast. Thesis. The Departement of Mechanical Manufacturing Acronautical and Chemical Engineering. The Queens University.

Benavente, M., Arias, S., Moreno, L., dan Martinez, J. 2015. Production of glucosamine hydrochloride from crustacean shell. Journal of Pharmacology 3(10): 20-26.

Berry, A., Burlingame, R. P., dan Millis, J.R. 2002. Process and materials for production of glucosamine. US patent 6,372,457.

Brugnerotto, J. 2001. An infrared investigation inrealtion with chitin and chitosan characterization. Polymer 42: 3569-3580.

Cahyono & Eko. 2015. Produksi glukosamin dengan metode hidrolisis bertekanan sebagai bahan penunjang kesehatan sendi. [Tesis]. Bogor: Sekolah Pascasarjana Institut Pertanian Bogor.

Cahyono, E., Suptijah, P., Wientarsih, I. 2014. Development of a pressurized hydrolysis method for producing glucosamine. Asian Journal of Agriculture and Food Sciences. 2(5):390-396.

Challener, C. 2003. Speciality supplements are the bright spot in US dietary supplement market-Focus 2003: Foodadditives/nutraceutical/vitamins-industry overview. Chemistry Market Rep. July 14.

Chmielowski, R.A., Wu, H.S., Wang, S.S. 2007. Scale-up of upstream and downstream operations for the production of glucosamine using microbial fermentation. Biotechnology Journal 2: 996-1006.

Crespo, M. O. P., Martınez, M. V., Hernandez, J. L., dan Yusty, M. A. L. 2006. High performance liquid chromatographic determination of chitin in the snow crab Chionoecetes opilio. Journal of Chromatography 1116: 189-192.

Czechowska-Biskup, R., Jarosinska, D., Rokita, B., Ulanski, P., dan Rosiak, J. M. 2012. Determination of Degree of Deacetylation of Chitosan-Comparison of Methods. Progress on Chemistry and Application of Chitin and Its Derivatives 17(1): 5-20.

Departemen Kelautan dan Perikanan (DKP). 2009. Indeks Statistik Perikanan Indonesia. Jakarta: Departemen Kelautan dan Perikanan.

European Food Safety Authority (EFSA). 2009. Scientific Opinion on the substantiation of a health claim related to glucosamine hydrochloride and reduced rate of cartilage degeneration and reduced risk of development of osteoarthritis pursuant. Parma, Italy. European Food Safety Authority 7(10): 1358.

Erika, I., Rojas, D., Waldo, M., Arguelles, M., Inocencio, H. C., Javier, H., Jaime, L. M., dan Francisco, M. G. 2005. Determination of chitin and protein contents during the isolation of chitin from shrimp waste. Macromolecular Bioscience 6: 340–347.

Ernawati. 2012. Pembuatan Glukosamin Hidroklorida (GlcN HCl) dengan Metode Autoklaf. Skripsi. Fakultas Perikanan dan Ilmu Kelautan. Institut Pertanian Bogor, Bogor.

FDA (U.S. Food and Drug Administration). 2004. Letter Regarding the Relationship Between the Consumption of Crystalline Glucosamine Sulfate and a Reduced Risk of Osteoarthritis (Docket No. 2004P-0060).

Hathcock, J. N., Andrew, S. 2006. Risk assessment for glucosamine and chondroitin sulfate. Regulatory Toxicology and Pharmacology 47: 78–83.

Hernawan, C. D. P., Suharto, S. K. W., dan Kismurtono, M. 2009. "Optimization of Chitin Production from Penaeus monodon Shells at Ambient Temperature. Surabaya: Indonesia Institute of Sciences". Proceedings of National Seminar on Applied Technology, Science, and Arts (1st APTECS), ISSN 2086-1931.

Hutchings, J.B. 1999. Food Color and Appearance. Chapman and Hall Food Science Book. Aspen Publishers, Inc., Gaithersburg, Maryland.

Kralovec, J. A., Barrow, C. J. 2008. Marine Nutraceutical and Functional Foods: Glucosamine Production and Health Benefits. Canada: CRC Press.

Marganov. 2003. Potensi Limbah Udang sebagai Penyerap Logam Berat (Timbal, Kadmium, dan Tembaga) di Perairan. Tesis. IPB, Bogor.

Martati, E., Susanto, T., Yunianta, dan Ulifah, I. A. 2002. Isolasi Khitin dari Cangkang Rajungan (*Portunus pelagicus*) Kajian Suhu dan Waktu Proses Deproteinasi. J. Tek. Pert. 3(2): 129-137.

Martin, A., Swarbick, J., dan A. Cammarata. 1993. Farmasi Fisik 2. Edisi III. Jakarta: UI Press. Pp. 940-1010, 1162, 1163, 1170.

Melati, E. 2014. Pembuatan glukosamin hidroklorida (GlcN HCl) dari kitin karapas udang dengan metode autoklaf. Skripsi. Fakultas Perikanan dan Ilmu Kelautan Institut Pertanian Bogor, Bogor.

Mojarrad, J. S., Mahboob, N., Valizadeh, H., Ansarin, M., Bourbour, S. 2007. Preparation of glucosamine from exoskeleton of shrimp and predicting production by response surface metodhology. Journal of Agricultural and Chemistry 55:2246-2250.

Nielsen, S.S. 2009. "Food Analysis" 4th ed. S.Suzane Nielsen, Springer, USA.

Nurjannah, A., Darmanto, Y. S., Wijayanti, I. 2016. Optimasi pembuatan glukosamin hidroklorida (GLcN) dari limbah cangkang rajungan melalui hidrolisis kimiawi. Jurnal Pengolahan Hasil Perikanan Indonesia 19(1): 26-35.

Pavelka, K., Gatterova, J., Olejarova, M., Machacek, S., Giacovelli, G., Rovati, L.C. 2002. Glucosamine Sulphate Use and Delay Progression of Knee Osteoarthritis: A 3-Year, Randomized, Placebo-Controlled, Double-blind Study. Archives of Internal Medicine 162: 2113-2123.

Puspawati, N.M., dan Simpen, I.N. 2010. Optimasi Deasetilasi Khitin dari Kulit Udang dan Cangkang Kepiting Limbah Restoran *Seafood* menjadi Khitosan melalui Variasi Konsentrasi NaOH. Universitas Udayana, Bukit Jimbaran. Jurnal Kimia 4 (1), Januari 2010: 79-90.

Ravichandran, S., Rameshkumar, G., Prince, A. R. 2009. Bio chemical composition of shell and flesh of the Indian white shrimp *Panaes indicus* (H.milneEdwards, 1837). Journal of Scientific Research 4(3):191-194.

Rismawan. 2012. Rendemen Glukosamin dari Kitin Udang [skripsi]. Bogor (ID): Sekolah Tinggi Matematika dan Ilmu Pengetahuan Alam.

Sanusi, M. 2004. Transformasi Kitin dari Hasil Iolsai Limbah Industri Udang beku menjadi Kitosan. Mar. Chim Acta 5(2): 28-32.

Shantosh, S., Mathew, P. T. 2007. Preparation of glucosamine and carboxymethylchitin from shrimp shell. Journal of Applied Polymer Science 107: 280-285.

Standar Nasional Indonesia (SNI). 2004. Air Dan Air Limbah Bagian 11: Cara Uji Derajat Keasaman pH dengan Menggunakan Alat pH Meter. Jakarta (ID). Badan Standarisasi Nasional.

Sibi, G., Dhananjaya, K., Ravikumar, K. R., Mallesha, H., Venkatesha, R. T., Trivedi, D., Bhusal, K.P., Neeraj, Gowda, K. 2013. Preparation of

glucosamine hydrochloride from crustacean shell waste and it's quantitation by RP- HPLC. American-Eurasian Journal of Scientific Research. 8(2):63-67.

Soegiharto, W. 2017. Pembuatan glukosamin dari kitin kulit udang windu (Paneous monodon) dengan metode hidrolisis dan pemanasan. [Skripsi]. Fakultas Sains dan Teknologi Universitas Pelita Harapan, Tangerang.

Soltani, M., Karini, K., Zamani, A. 2017. Fungal Glucosamine: Production, Purification, and Characterization. International Journal of Research Studies in Biosciences (IJRSB). 5(1):56-64.

Suyanto, S. Rachmatun, dan Ahmad, Mujiman. 2004. Budidaya Udang Windu. Penebar Swadaya, Jakarta.

Ulfa, M. 2016. Penentuan kadar glukosamin dari fermentasi kulit udang oleh *Mucor michei* dengan metode uji ninhidrin dan spektrofotometri Uv-Vis. Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Lampung, Lampung.

Underwood, A.L. 1990. Analisis Kimia Kuantitatif Edisi ke Enam. Erlangga. Jakarta

United States Pharmacopeia (USP). 2006. United States Pharmacopeia (29th Ed.) & National Formulary (23rd Ed.). Maryland: Pharmacopeia (USP) Convention Inc.

White, T., Stegemann, J. A. 2001. Environmentally preferred materials. In advance in Environmental Materials. Material Research Society: Singapore 2: 249-260.

Yan, X., Evenocheck, H. M. 2012. Chitosan analysis using acid hydrolysis and HPLC/UV Carbohydrate Polymers. 87: 1774-1778. Doi: 10.1016/j.carbpol.2011.09.091.

Yanar, Y., H. Büyükçapar, M. Yanar dan M. Göcer. 2007. Effect of carotenoids from red pepper and marigold flower on pigmentation, sensory properties and fatty acid composition of rainbow trout. Food chem. 100:326-330

Zhou, C., Sui, Q., Sun, N., Wang, J., Huang, K., Che, H. 2013. Glucosamine sodium sulfate can penetrate skin and may affect glucose metabolism in rats. Journal Drug Metabolitc Toxicol. 4(2):01-06.