

DAFTAR PUSTAKA

- Aak. Budidaya Tanaman Padi. Yogyakarta, Indonesia: Penerbit Kasinius; 1990.
- Andersen N, Stenby EH, Michelsen, M.L. Enzymatic Hidrolysis of Cellulose: Experimental and Modelling Studies. [Disertasi]. Technical University of Denmark; 2007.
- Anonim. British Pharmacopoeia. Vol. 1. London, Inggris: The Stationery Office; 2002.
- Anonim. United State Pharmacopoeia 30—National Formulary 25. New York, USA : USP Convention; 2007.
- Beiser A. Konsep Fisika Modern. Jakarta, Indonesia: Erlangga; 1986.
- Braunstein L, Dostie RL, Germano KH, Lamb SC, Penet CS, Richards PB. Crystalline Cellulose Production. United States Patent US005346589A. 1994.
- Cullity BD. Elements of X-ray Diffraction. Addison-Wesley Publishing Company; 1978.
- Day RA, Underwood AL. Analisis Kimia Kuantitatif. Penerjemah: Pudjaatmaka, A. H. Edisi kelima. Jakarta, Indonesia : Penerbit Erlangga; 1999.
- Druzhinina IR, Kopchinskiy AG, Druzhinina IS . The First 100 *Trichoderma* Characterized by Molecular Data. Myoscience. 2006; 47(2): 55-64.
- Fengel D, Wegener G. Kayu : Kimia, Ultrastruktur, Reaksi-reaksi, diterjemahkan oleh Dardjono Sastroadmojo. Yogyakarta, Indonesia: Gajah Mada University Press ; 1995.
- Fitriani E. Aktivitas Enzim Karboksilmetil Selulase *Bacillus pumilus* Galur 55 pada Berbagai suhu Inkubasi. [Skripsi]. Padang: Program Studi Kimia, Jurusan Kimia, Fakultas Matematika dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor; 2003.
- Gandjar IG, Rohman A. Kimia Farmasi Analisis. Yokyakarta, Indonesia: Pustaka Pelajar; 2007
- Gascoigne JA, Gascoigne MM.. Biological Degradation of Cellulose. London, Inggris; 1960.

Gautam SP, Budela PS, Pandey AK, Jamaluddin, Sarcaya S. Optimization of The Medium for The Production of Cellulase by The *Trichoderma viride* using Submerged Fermentation. International Journal of Environmental Sciences. 2010; 1(4): 656-665.

Gunam IB, Buda K, Guna IMYS. Pengaruh Pelakuan Delignifikasi dengan Larutan NaOH dan Konsentrasi Substrat Jerami Padi terhadap Produksi Enzim Selulase dari *Aspergillus niger* NRRL A-II. Jurnal Biologi. 2010; 14: 55-61

Gupta C, Jain P, Kumar D, Dixit AK, Jain RK. Production of Cellulase Enzyme from Isolated Fungus and it's Application as Efficient Refining Aid for Production of Security Paper. International Journal of Applied Microbiology and Biotechnology Research. 2015; 3: 11-19.

Halim A. Pembuatan dan Uji Sifat-sifat Teknologi Mikrokristalin Selulosa dari Jerami Padi. Jurnal Sains dan Teknologi Farmasi. 1999; 4(1): 18-26.

Halim A, Ben EF, Sulastri E. Pembuatan Mikrokristalin Selulosa dari Jerami Padi (*Oryza sativa* Linn) dengan Variasi Waktu Hidrolisis. Jurnal Sains dan Teknologi Farmasi. 2002; 7(2): 80-87.

Han YJ, Chen HZ. Synergism between Corn Stover Protein and Cellulose. Enzyme and Microbial Technology. 2007; 41:638-645.

Haque C, Rana AA, Masum SM, Ferdous T, Rashid M, Sarker, Karim MM. Synthesis of Microcrystalline Cellulose from Pretreated Cotton Obtained from *Bamboo ceiba* L, and its Characterization. Bangladesh Journal of Scientific and Industrial Research. 2015; 50(3): 199-204.

Hidayat R, Wulandari S, Wiryawan KG, Suryahadi. Prodution and Utilization of Cellulase from *Trichoderma viride*. Journal of Biotropia. 2005; 25: 50-59.

Jayanudin. Pemutihan Daun Nanas Menggunakan Hidrogen Peroksida. Jurnal Rekayasa Proses. 2009; 3(1): 10-14.

Kalyani P, Ashwini P, Mohini W, Sangita C. Labscale Production and Purification of Cellulase Enzyme from *Aspergillus niger*. Research Journal of Recent Sciences. 2015; 40: 124-124.

Keshk SMAS, Hajja MA. A New Method for Producing Microcrystalline Cellulose from *Gluconacetobacter xylinus* and Kenaf. Carbohydrate Polymers. 2011; 84: 1301-1305.

Khopkar, SM. Konsep Dasar Kimia Analitik. Jakarta: Penerbit UI, Indonesia; 1990.

- Klemm D, Philipp B, Heinze T, Heinze U, Wagenknecht W. Comprehensive Cellulose Chemistry : Fundamentals and Analytical Methods. 1998; 1.
- Krassig HA. Cellulose Structure, Accesibility and Reactivity. Gardon and Breach Science. 1996.
- Krisyanella, Djamaan A, Aulia W. Optimasi Proses Produksi Bioplastik Poli (3-Hidroksibutirat) dengan Bakteri *Bacillus* sp FAAC 20801 Menggunakan Bahan Dasar Jerami Padi Secara Fermentasi. Jurnal Sains dan Teknologi Farmasi. 2012; 17(1): 60-72.
- Kulkarni SPK, Dixit A, Singh, UB. Evaluation of Bacterial Cellulose Produced Form *Acetobacter cylindrum* as Pharmaceutical Excipient. American Journal of Drug Discovery and Development. 2012; 2(2): 72-86.
- Li XH, Yang HJ, Roy B, Park EY, Jiang LJ, Wang D, Miao YG.. Enhanced Cellulase Production of The *Trichoderma viride* Mutated by Microwave and Ultraviolet. Microbiological Research. 2009; 165: 190-198.
- Madison. Introduction to Fourier Transform Infrared Spectrometry. New York, USA: Thermo Nicolet Corporation; 2001.
- Martin A, Swabrick J, Cammarata A. Farmasi Fisika Edisi III. Jilid II. diterjemahkan oleh Yoshita. Jakarta, Indonesia : Universitas Indonesia; 1993.
- Meryandini A, Widosari W, Maranatha B, Sunarti TC, Rachmania N, Satria H.. Isolasi Bakteri Selulolitik dan Karakterisasi Enzimnya. Makara Journal of Science. 2009; 13: 33-38.
- Ngozi UO, Chizoba NA, Ifeacyichokwu OS. Phsycochemical Properties of Microcrystalline Cellulose derived from Indian Bamboo (*Bambusa vulgaris*). International Journal of Pharmaceutical Sciences Review and Research. 2014; 29(2): 5-9.
- Nugraha R. Produksi Enzim Selulase oleh *Penicillium nalgiovense* S240 pada Substrat Tandan Sawit. [Skripsi]. Program Studi Biokimia, Fakultas Matematika dan Ilmu Pengetahuan Alam. Institut Pertanian Bogor; 2006.
- Nurbailis. Karakterisasi Mekanisme *Trichoderma* spp. Indigenus Rizosfir Pisang untuk Pengendalian Penyakit *Fusarium oxysporum* f.sp. *cubense* Penyebab Penyakit Layu Fusarium pada Tanaman Pisang. [Disertasi]. Program Pascasarjana Universitas Andalas Padang; 2008.
- Nuringtyas TR. Karbohidrat. Yogyakarta, Indonesia: UGM Press; 2010.

Oktavianus F, Sigho RM, Bustan MD. Pembuatan Bioetanol dari Batang Jarak Menggunakan Metode Hidrolisis dengan Katalis Asam Sulfat. *Jurnal Teknik Kimia*. 2013; 19(2): 27-32.

Oyeniyi YJ, Itiola OA.. The Physicochemical Characteristic of Microcrystalline Cellulose, Derived from Sawdust, Agricultural Waste Product. *International Journal of Pharmacy and Pharmaceutical Sciences*. 2011; 4(1): 197-200.

Palmer T. Understanding Enzymes 4th. ed. London, Inggris: Princeton Hall; 1995.

Pandey S, Srivastava M, Shahid M, Kumar V, Singh A, Trivedi S, Srivastava YK. *Trichoderma* Species Cellulases Produced by Solid States Fermentation. *Journal of Data Mining Mining Genomics Preteomics*. 2015; 6(2): 1-4.

Perez J, Munoz J, Dorado T, Rubia DI, Martinez J. Biodegradation and Biological Treatments of Cellulose, Hemicellulose and Lignin: An Overview. *International Microbiology*. 2002; 5: 53-63.

Reimer L. Scanning Electron Microscopy: Physics of Image Formation and Microanalysis 2nd ed., Vol. 45. Berlin, Jerman: Springer; 1998.

Rowe RC, Sheskey P, Quinn M E. Handbook of Pharmaceutical Excipient 6th. ed. London: Pharmaceutical Press; 2009.

Saini JK, Patel AK, Adsul M, Singhania RR. Cellulase Adsorption on Lignin: A Roadblock for Economic Hydrolysis of Biomass. *Renewable Energy*. 2016; 98: 29-42.

Samsuri M, Gozan M, Mardias R, Baiquni M, Hermansyah H, Wijanarko A, Prasetya B, Nasikin M.. Pemanfaatan Selulosa Bagas untuk Produksi Etanol melalui Sakarifikasi dan Fermentasi Serentak dengan Enzim Xylanase. *Makara Journal of Technology*. 2007; 11(1).

Soenaryo E, Damardjati DS, Syam M. Padi buku 3. Bogor, Indonesia: Badan Penelitian dan Pengembangan Penelitian. Pusat Penelitian dan Pengembangan Tanaman Pangan; 1991.

Stamp AJ. Wood and Cellulose Sciences. New York, USA : The Ronald Press Company; 1964.

Suryadi H, Sutriyo S, HR, Rosikhoh D. Preparation of Microcrystalline Cellulose from Water Hyacinth Powder by Enzymatic Hydrolysis Using Cellulase of Local Isolate. *Journal of Young Pharmacist*. 2017; 9: S19-S23.

Thoorens G, Krier F, Leclercq B, Carlin B, Evrard B. Microcrystalline Cellulose, a Direct Compression Binder in a Quality by Design Environment - a Review. International Journal of Pharmaceutics. 2014; 473: 64-72.

Tjitrosoepomo G. Taxonomi Tumbuhan (Spermatophyta). Yogyakarta, Indonesia: Gadjah Mada University Press; 1989.

Troy DB, Remington JP, Beringer P. Remington: The Science and Practice of Pharmacy. Philadelphia, USA : Lippincott Williams & Wilkins; 2006.

Wang D, Ai P, Yu L, Tan Z, Zhang Y. Comparing the Hydrolysis and Biogas Production Performance of Alkali and Acid Pretreatments of Rice Straw Using Two-Stage Anaerobic Fermentation. Biosystems Engineering. 2015; 132: 47-55.

Xia ML, Wang L, Xia Z, Chen YHZ. A Novel Digital Color Analysis Method for Rapid Glucose Detection. Analytical Method. 2015; 16.

Yang D, Ding, Wyman. Enzymatic Hydrolysis of Cellulosic Biomass. Biofuels. 2011; 2(4): 421-450.

Young, Hugh D, Roger A, Freedman. Fisika Universitas Edisi Kesepuluh Jilid 2. Jakarta, Indonesia: Erlangga; 2004.

