

DAFTAR PUSTAKA

- Agustini, L., Ragil S.B., Irianto, M. Turjaman, dan E. Santoso. 2011. Isolat dan Karakterisasi Enzimatis Mikroba Lignoselulolitik Di Tiga Tipe Ekosistem Taman Nasional. *Jurnal Penelitian Hutan dan Konservasi Alam*. Vol. 8 No. 2 : 197-210.
- Ahmed, F. Md., Rahman, S. R., Gomes, D. J. 2012. Saccharification of Sugarcane Bagas by Enzymatic Treatment for bioetanol Production. *Malaysian Journal of Microbiology* Vol 8(2): 97-103.
- Amores, I., Ballesteros, I., Manzanares, P., Sáez, F., Michelena, G., Ballesteros, M. **2013**. Ethanol Production from Sugarcane Bagas Pretreated by Steam Explosion. *Electronic Journal of Energy & Environment* Vol. 1. No. 1: 25-36.
- Andersen, N. 2007. Enzymatic Hydrolysis Of Cellulose Experimental And Modeling Studies. Doctoral Thesis. Biocentrum-dtu. Technical University Of Denmark.
- Ariffin, H., N. Abdullah, M. S. Umi Kalsom, Y. Shirai, and M. A. Hassan. 2006. Production and Characterisation of Cellulase by *Bacillus pumilus* EB3. *International Journal of Engineering And Technology*, vol. 3, no. 1, 2006, pp. 47-53.
- Brenner, D.J., Krieg, N.R. dan Staley, J.T. 2005. Bergey's Manual of Systematic Bacteriology Second Edition, Volume Two the Proteobacteria. Springer. USA.
- Canilha, L., R de C. Lacerda. B. Rodrigues. F. A. F. Antunes. A. K. Chandel. T. S. dos Santos. 2012. Bioconversion of Hemicellulose from Sugarcane Biomass Into Sustainable Products. *International Journal of Scientific & Engineering Research*. Vol. 3. Issue 10.
- Conde-Mejía, C., A. J. Gutiérrez, M. El-Halwagi. 2012. A comparison of pretreatment methods for bioetanol production from lignocellulosic materials. *Process Safety and Environmental Protection* Vol. 90: 189–202.

- Dashtban, Mehdi, Miranda Maki, Kam Tim Leung, Canquan Mao, Wensheng Qing. 2010. Cellulase Activities in Biomass Conversion: Measurement Methods and Comparison. *Critical Reviews in Biotechnology Vol 1:1-8*.
- Dawson, L., & R. Boopathy. 2008. Cellulosic Ethanol Production from Sugarcane Bagas Without Enzymatic Saccharification. *Journal of BioResources Vol. 3(2): 452-460*.
- Deka D, Bhargav P, Sharma A, Goyal D, Jawed M, Goyal A. 2011. Enhancement of Cellulase Activity from A New Strain of *Bacillus subtilis* by medium optimization and Analysis with Various Cellulosic Substrates. *Enzyme Res. Vol 2011:151-656*.
- Ding, S. Y., Qi Xu, M. Crowley, Y. Zeng, M. Nimlos, R. Lamed, E. A. Bayer, and M. E Himmel. 2008. A Biophysical Perspective On The Cellulosome: New Opportunities For Biomass Conversion. *Current Opinion in Biotechnology Vol. 19: 218–227*.
- Ghose, T. K. 1987. Measurement of Cellulase activities. *Pure & App Chem., Vol. 59, No. 2: 257—268*.
- Gusakov, A. V., E. G. Kondratyeva, and A. P. Sinitsyn. 2011. Comparison of Two Methods for Assaying Reducing Sugars in the Determination of Carbohydrase Activities. *International Journal of Analytical Chemistry Volume 2011*.
- Holt, John G., Noel R. Krieg, Peter H. A. Sneath, James T. Staley, and Stanley T. Williams. 1994. *Bergeys Manual of Determinative Bacteriology Ninth Edition*. Williams and Wilkins. Baltimore.
- Huang, S., P. Sheng and H. Zhang. 2012. Isolation and Identification of Cellulolytic Bacteria from the Gut of *Holotrichia parallela* Larvae (Coleoptera: Scarabaeidae). *International Journal of Molecular. Science. Vol. 13. 2563-2577*.
- Husseneder, C.; Wise, B. R.; Higashiguchi, D. T. 2005. Microbial diversity in the termite gut: a complementary approach combining culture and culture-independent techniques. *Proceedings of The Fifth International Conference on Urban Pests, Singapore, 11-13 July 2005 pp. 189-195*

- Irfan, M., A. Safdar, Q. Syed, M. Nadeem. 2012. Isolation and Screening of Cellulolytic Bacteria From Soil and Optimization of Cellulase Production and Activity. *Turkish Journal of Biochemistry Vol. 37 (3): 287–293.*
- Juturu V., and Jin Chuan Wu. 2014. Microbial cellulases: Engineering, production and applications. *Renewable and Sustainable Energy Reviews Vol. 33: 188–203.*
- Kalyani, D., K. Min Lee., T. Kim., J. Li., S. S. Dhiman., Y. C. Kang., J. K. Lee. 2013. Microbial Consortia For Saccharification of Woody Biomass And Ethanol Fermentation. *Journal of Fuel Vol. 107: 815–822.*
- Kanokratana, P., W. Mhuanthong, T. Laothanachareon, S. Tangphatsornruang, L. Eurwilaichitr, K. Pootanakit, and V. Champreda. Phylogenetic Analysis And Metabolic Potential Of Microbial Communities in An Industrial Bagas Collection Site. *Microbial Ecology Vol. 66: 322–334.*
- Kim JM, Pack MY. 1988. Endo- β -1, 4- glucanase Encoded by *Bacillus subtilis* Gene Cloned in *Bacillus megaterium*. *Enzyme Microb Technol. Vol. 10:347-351.*
- Kodri, B., D. Argo, R. Yulianingsih. 2013. Pemanfaatan Enzim Selulase dari *Trichoderma Reesei* dan *Aspergillus Niger* sebagai Katalisator Hidrolisis Enzimatis Jerami Padi dengan *Pretreatment* Microwave. *Jurnal Bioproses Komoditas Tropis Vol. 1 No. 1.*
- Khokhar, Ibatsam; Muhammad S. Haider; Sobia Mushtaq; Irum Mukhtar. 2012. Isolation And Screening Of Highly Cellulolytic Filamentous Fungi. *J. Appl. Sci. Environ. Manage. Vol. 16 (3) 223 - 226*
- Kuhad, R Chander, R. Gupta, A. Singh. 2011. Microbial Cellulases and Their Industrial Applications. *SAGE-Hindawi Access to Research Enzyme Research Vol. 2011:1-10.*
- Larkin MA, Blackshields G, Brown NP, Chenna R, McGettigan PA, McWilliam H, Valentin F, Wallace IM, Wilm A, Lopez R, Thompson JD, Gibson TJ, Higgins DG. 2007. Clustal W and Clustal X version 2.0. *Bioinformatics, 23, 2947-2948.*

- Leschine, Susan B., 1995. Cellulose Degradation In Anaerobic Environments. *Ann-Rev. Microbiol. Vol. 49:399-426.*
- Lowry, O.H., N.J. Rosenbrough, A.L Farr. and R.J.Randall. 1951. Protein measurement with the Folin phenol reagent. *Journal of . Biol .Chem.* Vol. 193: 265–275.
- Maki, M., K, T, Leung, W. Qin. 2009. The Prospects Of Cellulase-Producing Bacteria For The Bioconversion Of Lignocellulosic Biomass. *International Journal of Biological Sciences Vol. 5: 500-516.*
- Maryanaa, Roni., Dian Ma'rifatunb, A. Wheni, Satriyo K.W., W. Angga Rizala. 2014. Alkaline Pretreatment on Sugarcane Bagasse for Bioethanol Production. *Energy Procedia Vol. 47:250 – 254*
- O'sullivan, Antoinette C., 1997. Cellulose: The Structure Slowly Unravels. *Cellulose Vol. 4: 173-207.*
- Otajevwo, F.D. 2011. Cultural Conditions Necessary for Optimal Cellulase Yield by Cellulolytic Bacterial Organisms as They Relate to Residual Sugars Released in Broth Medium. *Modern Applied Science Vol. 5, No. 3.*
- Rattanachomsri, U., P. Kanokratana, L. Eurwilaichitr, Y. Igarashi, and V. Champreda. 2011. Culture-Independent Phylogenetic Analysis of the Microbial Community In industrial Sugarcane Bagas Feedstock Piles *Biosci. Biotechnol. Biochem., Vol. 75: 232-239.*
- Robson LM, Chambliss GH. 1984. Characterization of The Cellulolytic Activity of a *Bacillus* isolate. *Appl Environ Microbiol.* Vol 47: 1039-1046
- Sadhu, S. and T. K. Maiti. 2013. Cellulase Production by Bacteria: A Review. *British Microbiology Research Journal. Vol. 3(3): 235-258.*
- Shaikh, N. M., A. Patel, A. Mehta S.A., and Patel N.D. 2013. Isolation and Screening of Cellulolytic Bacteria Inhabiting Different Environment and Optimization of Cellulase Production. *Universal Journal of Environmental Research and Technology. Volume 3. Issue 1: 39-49.*
- Sidana, A and U. Farooq. Sugarcane Bagas: A Potential Medium for Fungal Cultures. *Chinese Journal of Biology. Vol. 2014.*

- Silva, Cristina Ferreira, R. S. Azevedo, C. Braga, R. da Silva, E. S. Dias; R. F. Schwan 2009. Microbial Diversity In A Bagas-Based Compost Prepared For The Production Of *Agaricus Brasiliensis*. *Brazilian Journal of Microbiology* (2009) 40: 590-600.
- Sheng, Yu-Lin, W. C. Lee. K. J. Duan. Y. H. Lin. 2013. Ethanol Production by Simultaneous Saccharification and Fermentation In Rotary Drum Reactor Using Thermotolerant *Kluveromyces marxianus*. *Journal of Applied Energy* Vol. 105: 389–394.
- Sivaramanan, Sivakumaran. 2014. Isolation of Cellulolytic Fungi and their Degradation on Cellulosic Agricultural Wastes. *Journal of Academia and Industrial Research (JAIR)* Volume 2, Issue 8 January 2014 pp. 458-462
- Sukumaran, Rajevv K., Reeta Shinghania, Ashok Pandey. 2005. Microbial Cellulase: Production, Aplication and Challenges. *Journal of Scientific and Industrial Research* Vol. 64: 832-844.
- Syed, Saima., Syed Riyaz-Ul-Hassan, Sarojini Johri. 2013. A Novel Cellulase from an Endophyte, *Penicillium* Sp. NFCCI 2862. *American Journal of Microbiological Research*, 2013, Vol. 1, No. 4, 84-91
- Tamura K, Peterson D, Peterson N, Stecher G, Nei M, and Kumar S (2011) MEGA5: Molecular Evolutionary Genetics Analysis using Maximum Likelihood, Evolutionary Distance, and Maximum Parsimony Methods. *Molecular Biology and Evolution* 28: 2731-2739.
- van Dijk, Jan Maarten and Michael Hecker. 2013. *Bacillus subtilis*: from Soil Bacterium to Supersecreting Cell Factory. *Microbial Cell Factories* Vol. 12: 3
- Walford, S. N. 2008. Sugarcane Bagas: How Easy It Is to Measure It's Constituent. *Prociding African Sugar Technology Assay* Vol. 81: 266-273.
- Wilson, David B. 2011. Microbial Diversity Of Cellulose Hydrolysis. *Current Opinion in Microbiology* Vol. 14: 259–263.
- Xiao ZR, Lin HH, Yin LJ. 2010. Purification and Characterization of A Cellulase from *Bacillus subtilis* YJ1. *J Marine Sci Technol*. Vol. 18(3): 466-471.

- Yang, Bin, Z. Dai, Shi-You Ding, and C. E. Wyman. 2011. *Enzymatic Hydrolysis Of Cellulosic Biomass. Biofuels Vol. 2(4): 421–450.*
- Yang, Weiping., Fanxu Meng, Jiayin Peng, Peng Hana, Fang Fang, Li Ma, and Binyun Cao, 2014. Isolation and identification of a cellulolytic bacterium from the Tibetan pig's intestine and investigation of its cellulase production. *Electronic Journal of Biotechnology Vol. 17: 262–267*
- Zhang, Y. H. Percival, M. E. Himmel, J. R. Mielenz. 2006. Outlook for cellulase improvement: Screening and selection strategies. *Biotechnology Advances Vol. 24: 452–481.*
- Zhang, Xiao-Zhou and Yi-Heng P. Zhang. 2013. Cellulases: Characteristics, Sources, Production, And Applications. *Bioprocessing Technologies in Biorefinery for Sustainable Production of Fuels, Chemicals, and Polymers*, First Edition