

## DAFTAR PUSTAKA

- Achmadi, S. S., 1990. *Kimia Kayu*. Pusat Antar Universitas Ilmu Hayat. Institut Pertanian Bogor.
- Amirroenas, D. E., 1990. *Mutu Ransum Berbentuk Pellet Dengan Bahan Serat Biomassa POD Coklat Untuk Pertumbuhan Sapi Perah Jantan*. Tesis Fakultas Pascasarjana, Institut Pertanian Bogor. Bogor.
- Asnil, B. A., 2009. *Produksi Kakao diprediksi Meningkat*. <http://industri.kontan.co.id>. Diakses pada tanggal 20 Oktober 2012.
- Balai Pengkajian Teknologi Pertanian (BPTP) Sulawesi Selatan, 2006. *Pemanfaatan Limbah Kulit Buah Kakao*. [http://sulsel.litbang.deptan.go.id/index.php?option=com\\_content&task=view&id=229&Itemid=217](http://sulsel.litbang.deptan.go.id/index.php?option=com_content&task=view&id=229&Itemid=217). Diakses pada tanggal 28 September 2012.
- Bayer, E.A., E. Morag, dan R. Lamed, 1994. *The Cellulosome- A Treasure-Trove for Biotechnology*. TIBTECH 12, 379-386.
- Blanchette, R.A., 1995. *Degradation Of Lignocellulose Complex In Wood*. Can. J. Bot. **73** (Suppl. 1): S999-S1010.
- Blanchette, R.A., K.R. Cease, and A.R. Abad, 1991. *An Evaluation Of Different Forms Of Deterioration Found In Archaeological Wood*. Int. Biodeter. **28**:3-22.
- Brady, M., 1990. *The Nature and Properties of Soils*. 10<sup>th</sup> ed. Macmillan Publ. Company. New York.
- Chang, S.T. dan Miles P.G., 1989. *Edible Mushrooms and Their Cultivation*. CRC Press Inc. Florida.
- Daniel, G., dan T. Nilsson, 1998. *Developments In The Study Of Soft Rot And Bacterial Decay*. In: Bruce A. and J.W Palfreyman [eds]. Forest Products Biotechnology. Great Britain: Taylor & Francis pp. 37-62.
- Dey, S., T.K. Maiti, dan B.C. Bhattacharyya, 1994. *Production Of Some Extracellular Enzymes By A Lignin Peroxidase-Producing Brown Rot Fungus, Polyporus Ostreiformis, And Its Comparative Abilities For Lignin Degradation And Dye Decolorization*. Appl. Environ. Microbiol. **60**:4216-4218.
- Endah, C.N., 1990. *Optimasi Ekstraksi Pektin Kulit Buah Kakao*. Skripsi FTP UGM. Yogyakarta.

- Fengel, D., dan G. Wegener, 1995. *Kayu: Kimia, Ultrastruktur, Reaksi-reaksi*. (Terjemahan). Gajah Mada Univ Press. Yogyakarta.
- Gaman, P.M., dan K.B. Sherrington, 1992. *Pengantar Ilmu Pangan, Nutrisi Dan Mikrobiologi* Edisi 2. Gajah Mada University Press. Yogyakarta.
- Hammel, K.E., 1997. *Fungal Degradation Of Lignin*. Di Dalam: Cadisch G, Giller KE, Editor. *Driven By Nature: Plant Litter Quality And Decomposition*. London: CAB International. hlm. 33-45.
- Harjosuwito dan Tri Haryati, 1984. *Pemanfaatan Limbah Hasil Perkebunan Coklat Sebagai Bahan Dasar Pembuatan Pektin*. Menara Perkebunan 52, G: 213-216.
- Hatakka, A., 2001. *Biodegradation Of Lignin*. In: Steinbüchel A. [ed] *Biopolymers. Vol 1: Lignin, Humic Substances and Coal*. Germany: Wiley VCH. pp. 129-180.
- Heinzkill, M., dan K. Messner, 1997. *The Ligninolytic System Of Fungi*, p. 213-227. In T. Ankc (ed.).
- Hofrichter, M., 2002. Review: *Lignin Conversion by Manganese Peroxidase (MnP)*. *Enzyme Microbiol. Technol.* 30:454-466.
- Ide, P., 2008. *Dark Chocolate Healing*. PT Elex Media Komputindo Kelompok Gramedia. Jakarta
- Isnaini, M., Rohyadi A., dan Murdan, 2004. *Identifikasi dan Uji Patogenisitas Jamur-Jamur Penyebab Penyakit Busuk Batang Tanaman Vanili Di Lombok Timur*. Laporan Penelitian-Pusat Penelitian Universitas Mataram.
- Jackson, M.G., 1978. *Rice Straw as Livestock Feed*. World Animal Review, Food and Agriculture Organization of The United Nation, Rome.
- Jung, H.G., 1989. *Forage Lignins and Their Effects on Feed Digestibility*. *Agron. J.* 81.
- Kirk, T.K. dan R.L. Farrell, 1987. *Enzymatic "Combustion": The Microbial Degradation Of Lignin*. *Ann. Rev. Microbiol.* 41, 465-505.
- Laconi, E.B., 1998. *Peningkatan Mutu pod Kakao Melalui Amoniasi dengan Urea dan Biofermentasi dengan Phanerochaete chrysosporium dan Penjabarannya ke dalam Ransum Ruminansia*. Program Pasca Sarjana Institute Pertanian Bogor. Bogor.

- Langkong, J., 2011. *Bahan Ajar Mata Kuliah Teknologi Hasil Perkebunan, Jurusan Pertanian*. Fakultas Pertanian, Universitas Hasanuddin, Makassar.
- Macklin, B., 2009. *Pemanfaatan Limbah Kulit Buah Kakao*. <http://onlinebuku.com/tag/pemanfaatan-limbah-kulit-buah-kakao>. Diakses pada tanggal 20 Oktober 2012.
- Martawidjaja, M. dan M. Rangkuti, 1988. *Pengaruh Suplementasi Bungkil Bii Kapuk dengan Hijauan Dasar Rumput Gajah pada Anak Domba. Proceeding Pertemuan Ilmiah Ruminansia Jilid 2*. Balai Penelitian Ternak Ciawi. Bogor.
- Minifie, B.W., 1984, *Chocolate Cocoa and Confectionary*. Science and Technology 2<sup>nd</sup> edition. VA Churcil 104. London.
- Moore-Landecker, E., 1990. *Fundamentals of The Fungi*. Fourth Edition Prentice.
- Morrison, F.B., 1986. *Feed and Feeding*. 21th Ed. The Iowa State University Press. Iowa.
- Murni, R., Suparjo, Akmal, dan B.L. Ginting, 2008. *Buku Ajar Teknologi Pemanfaatan Limbah untuk Pakan*. Laboratorium Makanan Ternak. Fakultas Peternakan universitas Jambi.
- Muttaqin, I., 1996. *Tepung Kulit Buah Kakao sebagai Campuran Pembuatan Roti Tawar*. Skripsi FTP UGM. Yogyakarta.
- Nelson, D.C. dan M.C. Michael, 2000. *Lehninger Principle of Biochemistry*. 3rd Ed. Worth Publishers. New York.
- Perez, J., J.M. Dorado, T. Rubia, dan J. Martinez, 2002. *Biodegradation and Biological treatments of Cellulose, Hemicellulose and Lignin: An Overview*. Int. Microbiol. 5, 53-63.
- Preston, T.R. dan R.A. Leng, 1987. *Matching Ruminant Production System with Available Resources in The Tropics and Subtropics*. Penambul Books Armidale. Australia.
- Roesmanto, J., 1991. *Kakao Kajian Sosial Ekonomi*. Aditya Media. Yogyakarta.
- Sanchez, C., 2009. *Lignocellulosic Residues: Biodegradation and Bioconversion by Fungi*. Biotechnology Advances 27.
- Siregar, T.T.S., S. Riyadi dan L. Nuraeni, 1992. *Budidaya Pengolahan Dan Pemasaran Coklat*. Penebar Swadaya. Jakarta.

- Smith, D.H. dan A.A. Adegbola, 1982. *Studies Of Feeding Value Of Agroindustrial By Product And Feeding Value Of Cacao Pods For Cattle*. Tropical Animal Production, 7 : 290-295.
- Soejono, M., 1990. *Petunjuk Laboratorium Analisis dan Evaluasi Pakan*. Fakultas Peternakan Universitas Gadjah Mada. Yogyakarta.
- Srebotnik, E., K.A. Jensen dan K.E. Hammel, 1998. *Cleavage of Nonphenolic Lignin Structure by Laccase in The Presence of 1- Hydroxibenzotriazole*. Proc Natl Acad Sci 91:12794-12797.
- Srebotnik E., K.A. Jensen dan K.E. Hammel, 1994. *Fungal Degradation Of Recalcitrant Nonphenolic Lignin Structure Without Lignin Peroxidase*. Proc Natl Acad Sci 91:12794-12797.
- Steffen, K.T., 2003. *Degradation Of Recalcitrant Biopolymers And Polycyclic Aromatic Hydrocarbons By Litter-Decomposing Basidiomycetous Fungi*. [disertasi]. Helsinki: Division of Microbiology Department of Applied Chemistry and Microbiology Viikki Biocenter. University of Helsinki.
- Sugiprihartini, D., 1998. *Pengaruh Sumber Karbon terhadap Aktivitas Lignolitik Ganoderma spp*. Skripsi. Bogor: Departemen Biologi FMIPA, IPB.
- Sunanto, H., 1992. *Cokelat Budidaya, Pengelolaan Hasil dan Aspek Ekonominya*. Kanisius. Jakarta. 130 hal.
- Suparjo, 2010. *Analisis Bahan Pangan Secara Kimiawi, Analisis Proksimat dan Analisis Serat*. Laboratorium Makanan Ternak Fakultas Peternakan. Universitas Jambi.
- Supriyanto, 1989. *Karakterisasi Tepung Kulit Buah Kakao*. Laporan Penelitian FTP UGM. Yogyakarta.
- Susanto, F.X., 1994. *Tanaman Kakao Budidaya dan Pengolahan Hasil*. Penerbit Kanisius. Yogyakarta.
- Taherzadeh, M.J., 1999. *Ethanol from Lignocellulose: Physiological Effects of Inhibitors and Fermentation Strategies*. [thesis]. Göteborg: Department of Chemical Reaction Engineering, Chalmers University Of Technology.
- Tequia, A., Endeley HNL. dan Beynen A.C., 2004. *Broiler performance upon dietary substitution of cocoa husks for maize*. Int J Poul Sci 3 (12) : 799-782.
- Tjitrosoepomo, G., 2000. *Taksonomi Tumbuhan Spermatophyta*. UGM Press. Yogyakarta.

- Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo, dan S. Lebdosoekojo. 1998. *Ilmu Makanan Ternak Dasar*. Gadjah Mada University Press. Yogyakarta.
- Tuomela, M., 2002. *Degradation Of Lignin And Other 14C-Labelled Compounds In Compost And Soil With An Emphasis On White-Rot Fungi*. Helsinki: Dep. Appl. Chem. Microbiol. Division of Microbiology University of Helsinki.
- Van Soest, P.J., 1976. *New Chemical Methods for Analysis of Forages for The Purpose of Predicting Nutritive Value*. Pref IX International Grassland Cong.
- Van Soest, P.J., 1982. *Nutritional Ecology of The Ruminant*. Cornell University Press. Ithaca. New York.
- Wahyudi, T., 2003. *Standar Operasional Prosedur (SOP) Penanganan Biji Kakao Ditingkat Petani, Pedagang Pengumpul Dan Eksportir*. Warta Pusat Penelitian Kopi dan Kakao Indonesia 19(3):156-167.
- Wilson, K.B. dan Walter M., 2002. *Development of Biotechnology Tool Using New Zealand White Rot Fungi to Degrade Pentachlorophenol*. Hasil Presentasi pada Waste Management Institute New Zealand. <http://www.hortresearch.co.nz/files/2002/biorem-wasteminz.pdf>. Diakses pada tanggal 20 Oktober 2012.
- Wahyudi, *et al.*, 2008. *Kakao Managemen Agribisnis dari Hulu hingga Hilir*. Penebar Swadaya. Jakarta.
- Wong, H.K., O.A. Hassan, dan M.S.M. Idris, 1986. *Utilization of cocoa by-products as ruminants feed*. Proc. Of the 6th annual workshop of the Australian-Asian fibrous agricultural residues research network.
- Wood, G.A.R. dan R.A. Lass, 1985. *Cocoa*. Longman Scientific and Technical. New York. 618 p.
- Wood, C. A. R., 1975. *Cacao*. Longman, London.
- Young, R., 1986. *Cellulosa Structure Modification and Hydrolysis*. New York.
- Yuniasmara C., Muchrodji, dan Bakrun M., 2004. *Jamur Tiram*. Penebar Swadaya. Jakarta.
- Zabel R.A. dan Morrell JJ., 1992. *Wood Microbiology: Decay and Its Prevention*. Academic Press, Inc. New York.

## LAMPIRAN

**Lampiran 1.** Isolat jamur pelapuk MKS, JM, KSH, KSB, Isolat B, C, dan E pada media PDA (Potato Dextrose Agar)



Isolat MKS



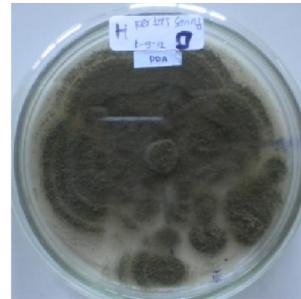
Isolat JM



Isolat KSB



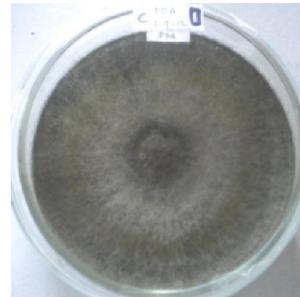
Isolat E



Isolat KSH



Isolat B



Isolat C

**Lampiran 2.** Diagram alir analisis serat dengan metode Van Soest

