DAFTAR PUSTAKA

Ade, F. Y. 2013. Isolasi dan identifikasi jamur-jamur pendegradasi amilosa pada empelur tanaman sagu (*Metroxylon sagu* Rottb.). Jurnal Ilmiah Edu Research. 2:27-34.

Agustin, Y. E., dan K. S. Padmawijaya. 2016. Sintesis bioplastik dari kitosan pati kulit pisang kepok dengan penambahan zat aditif. Jurnal Teknik Kimia. 10:43-51.

Al-Sabagh, A. M., F. Z. Yehia, G. Eshaq, G., A. M. Rabie, and A. E. ElMetwally. 2015. Greener routes for recycling of polyethylene terephthalate. Egyptian Journal of Petroleum. 25:53-64.

Alva, S., J. Anupama, J. Savla, Y. Y. Chiu, P. Vyshali, M. Shruti, B. S. Yogeetha, D. Bhavya, J. Purvi, K. Ruchi, B. S. Kumudini and K. N. Varalakshmi. 2007. Production and characterization of fungal amylase enzyme isolated from *Aspergillus* sp. JGI 12 in solid state culture. African journal of Biotechnology. 6:576-581.

Amagliani, L., J. O'Regan, A. L. Kelly, and J. A. O'Mahony. 2016. Chemistry, structure, functionality and applications of rice starch. Journal of Cereal Science. 70:291-300.

Anonim. 2019. Sosial dan Kependudukan tentang Jumlah Penduduk Hasil Sensus Penduduk (SP) dan Survei Penduduk Antar Sensus (SUPAS) menurut Provinsi. BPS<https://www.bps.go.id/subject/12/kependudukan.html#subjekViewTab3>. Diakses 1 April 2020.

Anonim. 2019. Peningkatan Komposisi Sampah Plastik Mencapai 6 Persen Per Tahun. KLHK < https://www.menlhk.go.id/site/post/10>. Diakses 1 April 2020.

Anstey, A., S. Muniyasamy, M. Reddy, M. Misra, and A. Mohanty. 2014. Processability and biodegradability evaluation of composites from Poly (butylene succinate) (PBS) bioplastic and biofuel co-products from Ontario. Journal of Polymers and the Environment. 22:209-218.

Ariandi, A. 2017. Pengenalan enzim amilase (alpha-amylase) dan reaksi enzimatisnya menghidrolisis amilosa pati menjadi glukosa. Jurnal Dinamika. 7:74-82.

Ashok, A., R. Abhijith, and C. R. Rejeesh. 2018. Material characterization of starch derived bio degradable plastics and its mechanical property estimation. Materials Today: Proceedings. 5:2163-2170.

Awasthi, S., N. Srivastava, T. Singh, D. Tiwary, and P. K. Mishra. 2017. Biodegradation of thermally treated low density polyethylene by fungus *Rhizopus oryzae* NS 5. 3 Biotech. 7:73.

Bradford, M. 1976. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding. Analytical Biochemistry 72: 248.

Brock. 1994. Biology of Microorganism. Seventh edition. Prentice Hall, Inc. New Jersey

Brodin, M., M. Vallejos, M. T. Opedal, M. C. Area, and G. Chinga-Carrasco. 2017. Lignocellulosics as sustainable resources for production of bioplastics-A review. Journal of Cleaner Production. 162:646-664.

Coniwanti, P., L. Laila, dan M. R. Alfira. 2014. Pembuatan film plastik biodegredabel dari pati jagung dengan penambahan kitosan dan pemplastis gliserol. Jurnal Teknik Kimia. 4.

Das, M. P., and S. Kumar. 2015. An approach to low-density polyethylene biodegradation by *Bacillus amyloliquefaciens*. 3 Biotech. 5:81-86.

Das, A. J., T. Miyaji, and S. C. Deka. 2017. Amylolytic fungi in starter cakes for rice beer production. The Journal of General and Applied Microbiology. 63:236-245.

Dey, U., N. K. Mondal, K. Das, and S. Dutta. 2012. An approach to polymer degradation through microbes. IOSR Journal of Pharmacy. 2:385-8.

Dilkes-Hoffman, L., P. Ashworth, B. Laycock, S. Pratt, and P. Lant. 2019. Public attitudes towards bioplastics knowledge, perception and end of life management. Resources, Conservation and Recycling. 151:104479.

Egbere, O. J., G. P. Mang, J. O. Pondei, A. D. Yakubu, and O. Dayok. 2014. Screening of Cellulolytic and Amyloytic Fungi Associated with Corncobs in Refuse Dumps Within Jos, Nigeria.

Emadian, S. M., T. T. Onay, and B. Demirel. 2017. Biodegradation of bioplastics in natural environments. Waste management. 59:526-536.

Endres, H. J. 2017. Bioplastics. In Biorefineries. Springer, 427-468.

Gadhave, R. V., A. Das, P. A. Mahanwar, P. T. Gadekar. 2018. Starch based bio-plastics: the future of sustainable packaging. Open Journal of Polymer Chemistry. 8:21-33.

Gajendiran, A., S. Krishnamoorthy, and J. Abraham. 2016. Microbial degradation of low-density polyethylene (LDPE) by *Aspergillus clavatus* strain JASK1 isolated from landfill soil. 3 Biotech. 6:52.

Goldbeck, R., C. C. P. Andrade, G. A. G. Pereira, and F. M. Filho. 2012. Screening and identification of cellulase producing yeast-like microorganisms from Brazilian biomes. African Journal of Biotechnology. 11:11595-11603.

Gomez, E. F., and Jr. F. C. Michel. 2013. Biodegradability of conventional and bio-based plastics and natural fiber composites during composting, anaerobic digestion and long-term soil incubation. Polymer Degradation and Stability 98:2583-2591.

Gorrasi, G., and R. Pantani. 2017. Hydrolysis and biodegradation of poly (lactic acid). Springer. 279:119-152.

Gupta, R., P. Gigras, H. Mohapatra, V. K. Goswami, and B. Chauhan. 2003. Microbial α-amylases: a biotechnological perspective. Process biochemistry. 38:1599-1616.

Hansson, T. 2018. End-of-life scenarios for bioplastic food and drinking packages. Swedish University of Agricultural Sciences.

Herlinda, S. 2010. Spore density and viability of entomopathogenic fungal isolates from Indonesia, and their virulence against *Aphis gossypii* Glover (Homoptera: Aphididae). Tropical Life Sciences Research. 21:11.

Jain, R., and A. Tiwari. 2015. Biosynthesis of planet friendly bioplastics using renewable carbon source. Journal of Environmental Health Science and Engineering. 13:11.

Karuniastuti, N. 2013. Bahaya plastik terhadap kesehatan dan lingkungan. Swara Patra. 3.

Khan, J. A., and R. Priya. 2011. A study on partial purification and characterization of extracellular amylases from Bacillus subtilis. Advance in Applied Science Research. 2:509-519.

Khan, M. R., M. Arshad, and S. A. Raza, S. 2012. Biodegradation of synthetic polymers by fungi. Asian Journal of Chemistry. 24:4583.

Khokhar, I., I. Mukhtar, and S. Mushtaq. 2011. Isolation and screening of amylolytic filamentous fungi. Journal of Applied Sciences and Environmental Management. 15:203-206.

Kumar, S., A. K. Panda, and R. K. Singh. 2011. A review on tertiary recycling of high-density polyethylene to fuel. Resources, Conservation and Recycling. 55:893-910.

Kurniawati, I. 2015. Karakteristik maltodekstrin biji nangka dengan hidrolisis enzim α-amilase. Profesi (Profesional Islam): Media Publikasi Penelitian. 13.

Lubis, M., M. B. Harahap, A. Manullang, Alfarodo, M. H. S. Ginting, and M. Sartika. 2017. Utilization starch of jackfruit seed (*Artocarpus heterophyllus*) as raw material for bioplastics manufacturing using sorbitol as plasticizer and chitosan as filler. Journal of Physics: Conference Series. 801:012-014.

M Asadullah, M. A. 2014. Isolasi Bakteri Amilolitik dari bekatul dan Uji Kemampuan untuk produksi enzim amilase kasar pada berbagai jenis media produksi. Universitas Islam Negeri Maulana Malik Ibrahim. Disertasi.

Nathania, T. R., dan N. D. Kuswytasari. 2013. Studi potensi isolat kapang wonorejo surabaya dalam mendegradasi polimer bioplastik *poly hydroxy butyrate* (PHB). Jurnal Sains dan Seni ITS. 2:E55-E58.

Nguyen, D. M., T. V. V. Do, A. C. Grillet, H. H. Thuc, and C. N. H. Thuc. 2016. Biodegradability of polymer film based on low density polyethylene and cassava starch. International Biodeterioration and Biodegradation. 115:257-265.

Nimchua, T., D. E. Eveleigh, and H. Punnapayak. 2008. Screening of tropical fungi producing *polyethylene terephthalate* hydrolyzing enzyme for fabric modification. Journal of industrial microbiology and biotechnology. 35:843.

Nisa, I. C. 2017. Seleksi bakteri beraktivitas ganda ACC deaminase dan nitrogenase. Universitas Gadjah Mada. Thesis.

Ogbonna, A. I., F. C. Onwuliri, and C. I. C. Ogbonna. 2015. Growth response and amylolytic activity of two *Aspergillus* species isolated from *Artemisia annua* L. plantation soils. Journal of Academia and Industrial Research (JAIR). 3:456.

Ojha, N., N. Pradhan, S. Singh, A. Barla, A. Shrivastava, P. Khatua, V. Rai, and S. Bose. 2017. Evaluation of HDPE and LDPE degradation by fungus, implemented by statistical optimization. Scientific Reports. 7:1-13.

Park, H. M., S. R. Lee, S. R. Chowdhury, T. K. Kang, H. K. Kim, S. H. Park, and C. S. Ha. 2002. Tensile properties, morphology, and biodegradability of blends of starch with various thermoplastics. Journal of Applied Polymer Science. 86:2907-2915.

Perez, J. M., W. S. Kontur, M. Alherech, J. Coplien, S. D. Karlen, S. S. Stahl, T. J. Donohue, and D. R. Noguera. 2019. Funneling aromatic products of chemically depolymerized lignin into 2-pyrone-4-6-dicarboxylic acid with *Novosphingobium aromaticivorans*. Green Chemistry. 21:1340-1350.

Permatasari, Y. 2015. Pembuatan Plastik Biodegradable dari Tepung Maizena dengan Memvariasikan Konsentrasi Gliserin dan Penambahan Jumlah Asam Asetat. Politeknik Negeri Sriwijaya. Disertation.

Pramesti, H. A., K. Siadi, and E. Cahyono. 2015. Analisis rasio kadar amilosa /amilopektin dalam amilum dari beberapa jenis umbi. Indonesian Journal of Chemical Science. 4.

Puspitasari, N., S. L. Tsai, and C. K. Lee. 2020. Fungal hydrophobin rola enhanced PETase hydrolysis of *Polyethylene Terephthalate*. Applied Biochemistry and Biotechnology.

Putri, R. D. 2018. Isolasi dan Identifikasi Jamur Penghasil Acc Deaminase dari Rhizosfer dan Akar Tanaman yang Tumbuh Sehat di Lahan Salin. Universitas Gadjah Mada. Skripsi.

Radhiyatullah, A., N. Indriani, dan M. H. S. Ginting. 2015. Pengaruh berat pati dan volume plasticizer gliserol terhadap karakteristik film bioplastik pati kentang. Jurnal Teknik Kimia USU. 4:35-39.

Robi'a, A. Sutrisno. 2015. Karakteristik sirup glukosa dari tepung ubi ungu (kajian suhu likuifikasi dan konsentrasi α-amilase): kajian pustaka. Jurnal Pangan dan Agroindustri. 3.

Rohmah, U. M., M. Shovitri, and N. D. Kuswytasari. 2018. Degradasi plastik oleh jamur *Aspergillus terreus* (LM 1021) pada pH 5 dan pH 6 serta suhu 25 dan 35 celcius. Jurnal Sains dan Seni ITS 7:60-65.

Ross, G., S. Ross, and B. J. Tighe. 2017. Bioplastics: new routes, new products. In Brydson's Plastics Materials. Butterworth-Heinemann. 631-652.

Sakthi, S. S., D. Kanchana, P. Saranraj, and G. Usharani. 2012. Evaluation of amylase activity of the amylolytic fungi *Aspergillus niger* using cassava as substrate. International Journal of Applied Microbiology Science. 1:24-34.

Sangale, M. K., M. Shahnawaz, and A. B. Ade. 2019. Potential of fungi isolated from the dumping sites mangrove rhizosphere soil to degrade polythene. Scientific reports. 9:1-11.

Shah, A. A., F. Hasan, A. Hameed, and S. Ahmed. 2008. Biological degradation of plastics: a comprehensive review. Biotechnology advances 26:246-265.

Sharon, C., and M. Sharon, M. 2012. Studies on biodegradation of *polyethylene terephthalate*: a synthetic polymer. Journal of Microbiology and Biotechnology Research. 2:248-257.

Silviana, S., dan P. Rahayu. 2017. Pembuatan bioplastik berbahan pati sagu dengan penguat mikrofibril selulosa bambu terdispersi kcl melalui proses sonikasi. Reaktor 17:151-156.

Singh, J., and K. C. Gupta. 2014. Screening and identification of low density polyethylene (LDPE) degrading soil fungi isolated from polythene polluted sites around Gwalior city (MP). International Journal of Current Microbiology and Applied Sciences. 3:443-448.

Tokiwa, Y., B. P. Calabia, C. U. Ugwu, and S. Aiba. 2009. Biodegradability of plastics. International journal of molecular sciences. 10:3722-3742.

Urbanek, A. K., W. Rymowicz, and A. M. Mironczuk. 2018. Degradation of plastics and plastic-degrading bacteria in cold marine habitats. Applied Microbiology and Biotechnology. 102:7669-7678.

Verma, R., K. S. Vinoda, M. Papireddy, and A. N. S. Gowda. 2016. Toxic pollutants from plastic waste-a review. Procedia Environmental Sciences. 35:701-708.

Wang, N. S. 2009. Experiment no. 5: Starch Hydrolysis by Amylase. Department of Chemical & Biomolecular Engineering. University of Maryland.

Webb, H. K., J. Arnott, R. J. Crawford, and E. P. Ivanova. 2013. Plastic degradation and its environmental implications with special reference to poly (ethylene terephthalate). Polymers. 5:1-18.

Wilkes, R. A., and L. Aristilde. 2017. Degradation and metabolism of synthetic plastics and associated products by *Pseudomonas* sp.: capabilities and challenges. Journal of Applied Microbiology. 123:582-593.

Xu, J., and B. H. Guo. 2010. Poly (butylene succinate) and its copolymers: research, development and industrialization. Biotechnology journal. 5:1149-1163.

Yalcin, H. T., and C. Corbaci. 2013. Isolation and characterization of amylase producing yeasts and improvement of amylase production. Turkish Journal of Biochemistry/Turk Biyokimya Dergisi. 38.