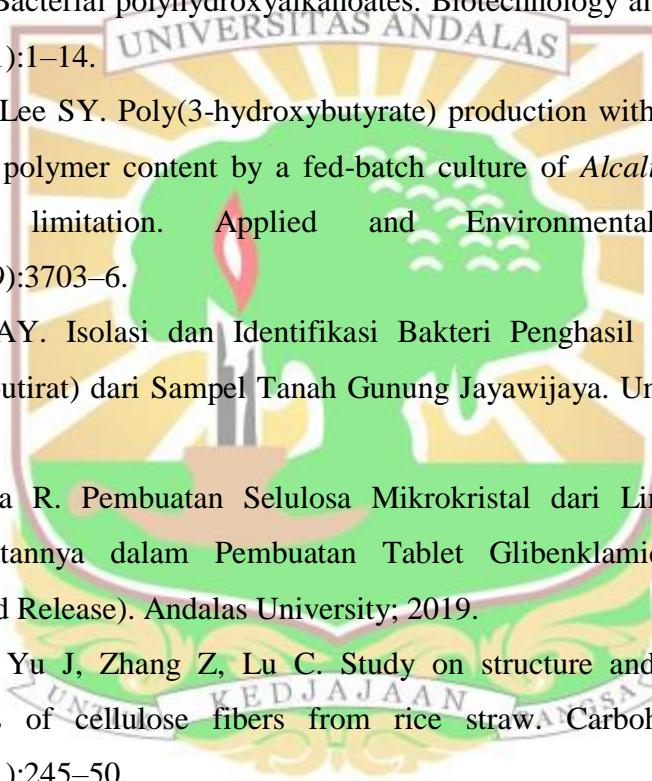


DAFTAR PUSTAKA

1. Djamaan A, Aulia W, Krisyanella K. Optimasi Proses Produksi Bioplastik Poli (3-Hidroksibutirat) dengan Bakteri *Bacillus* sp FAAC 20801 Menggunakan Bahan Dasar Jerami Padi Setelah Fermentasi. Jurnal Farmasi Higea. 2016;3(2):63–73.
2. Plastics Europe Research Group Market (PEMRG). An analysis of European plastics production, demand and waste data. Plastics the facts. 2015.
3. Jambeck JR, Geyer R, Wilcox C, Siegler TR, Perryman M, Andrady A, et al. Plastic waste inputs from land into the ocean. Science. 2015;347:768–71.
4. Puls J, Wilson SA, Höller D. Degradation of Cellulose Acetate-Based Materials: A Review. Journal of Polymers and the Environment. 2011;19:152–65.
5. Pratiwi R, Rahayu D, Barliana MI. Pemanfaatan Selulosa dari Limbah Jerami Padi (*Oryza sativa*) Sebagai Bahan Bioplastik. Indonesian Journal of Pharmaceutical Science and Technology. 2016;3(3):83.
6. Ezgi Bezirhan Arikán, Havva Duygu Ozsoy. A Review: Investigation of Bioplastics. Journal of Civil Engineering and Architecture. 2015;9:188–92.
7. Anderson AJ, Dawes EA. Occurrence, metabolism, metabolic role, and industrial uses of bacterial polyhydroxyalkanoates. Microbiological Reviews. 1990;54(4):450–72.
8. Anas Y, Puspitasari N, Nuria MC. Aktivitas Stimulansia Ekstrak Etanol Bunga dan Daun Cengkeh (*Syzygium aromaticum* (L) Merr. & Perry.) pada Mencit Jantan Galur Swiss beserta Identifikasi Golongan Senyawa Aktifnya. Jurnal Ilmu Farmasi dan Farmasi Klinik. 2013;1(10):13–22.
9. Djamaan A. Biosynthesis of a biopolymer poly (3-hydroxybutyrate) from a mixture of palm oil and 2-butanol as carbon sources. Indonesian Journal of Pharmacy. 2011;315–22.

- 
10. Kresnawaty I, Mulyani AS, Eris DD, Prakoso HT. Karakterisasi PHA yang dihasilkan oleh *Pseudomonas aeruginosa* dan *Bacillus subtilis* yang ditumbuhkan dalam media limbah cair pabrik kelapa sawit Characterization of PHA produced by *Pseudomonas aeruginosa* and *Bacillus subtilis* inoculated in palm oil mill e. E-Jurnal Menara Perkebunan. 2016;82(2).
 11. Kim BS. Production of Poly-3-hydroxybutyrate from inexpensive substrates. Journal of Pure and Applied Microbiology. 2000;3(2):774–777.
 12. Lee SY. Bacterial polyhydroxyalkanoates. Biotechnology and Bioengineering. 2000;49(1):1–14.
 13. Wang F, Lee SY. Poly(3-hydroxybutyrate) production with high productivity and high polymer content by a fed-batch culture of *Alcaligenes latus* under nitrogen limitation. Applied and Environmental Microbiology. 1997;63(9):3703–6.
 14. Pekey AAY. Isolasi dan Identifikasi Bakteri Penghasil Bioplastik Poli(3-Hidroksibutirat) dari Sampel Tanah Gunung Jayawijaya. Universitas Andalas; 2018.
 15. Okditanisa R. Pembuatan Selulosa Mikrokristal dari Limbah Jerami dan Pemanfaatannya dalam Pembuatan Tablet Glibenklamid Lepas Lambat (Sustained Release). Andalas University; 2019.
 16. Chen X, Yu J, Zhang Z, Lu C. Study on structure and thermal stability properties of cellulose fibers from rice straw. Carbohydrate polymers. 2011;85(1):245–50.
 17. Guzmán A, Delvasto A S, Sánchez V E. Valorization of rice straw waste: An alternative ceramic raw material. Ceramica. 2015;61(357):126–36.
 18. Howard RL, Abotsi E, Van Rensburg ELJ, Howard S. Lignocellulose biotechnology: Issues of bioconversion and enzyme production. African Journal of Biotechnology. 2003;2(12):702–33.
 19. Fengel D, Wegener G. Kayu : Kimia, Ultrastruktur, Reaksi-reaksi, diterjemahkan oleh Dardjono Sastroadmojo. Yogyakarta: Gajah Mada

- University Press; 1995.
20. Ansell MP, Mwaikambo LY. The structure of cotton and other plant fibres. In: Handbook of textile fibre structure. Elsevier; 2009. p. 62–94.
 21. Patnaik P. Handbook of inorganic chemicals. Vol. 529. McGraw-Hill New York; 2003.
 22. ILO International Chemical Safety Cards (ICSC). Ammonium Phosphate Dibasic [Internet]. 1998 [cited 2020 Mar 8]. Available from: http://www.ilo.org/dyn/icsc/showcard.display?p_version=2&p_card_id=0217
 23. Neil MJO. The Merck Index: An Encyclopedia of chemicals, drugs and biologicals. Whitehouse station, New Jersey: Published by Merck Research Laboratories, Division of Merck and Co. Inc; 2006.
 24. Lide DR. DR 2007-2008. Handbook of Chemistry and Physics, 88th Ed, CRC Press.
 25. DrugBank. Urea [Internet]. [cited 2020 Mar 9]. Available from: <http://www.drugbank.ca/drugs/DB03904>
 26. Austin. Proses Industri Kimia. New York: Mc Graw Hill Book Company; 1997.
 27. Remington JP. Remington: The science and practice of pharmacy. Vol. 1. Lippincott Williams & Wilkins; 2006.
 28. CAMEO Chemicals. UREA [Internet]. 2016 [cited 2020 Mar 9]. Available from: <https://cameochemicals.noaa.gov/chemical/9165>
 29. Meessen JH. Urea. Ullmann's Encyclopedia of Industrial Chemistry. 2000;
 30. EU Food Improvement Agents. Carbamide [Internet]. [cited 2020 Mar 9]. Available from: <https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32012R0231>
 31. Guard U-UC. Chemical Hazard Response Information System (CHRIS)-Hazardous Chemical Data. Commandant Instruction 16465.12 C. Washington, DC: US Government Printing Office; 1999.
 32. Thalib TA. Pengaruh Konsentrasi Substrat Pati pada Pembentukan PHB (Poly-

- β -Hydroxybutirate) Secara In Vivo Menggunakan *Bacillus* B-6 dalam Proses pembuatan Biodegradable Plastik. Yogyakarta: Universitas Gajah Mada; 1999.
33. Coniwanti P, Laila L, Alfira MR. Pembuatan Film Plastik Biodegradabel Dari Pati Jagung Dengan Penambahan Kitosan Dan Pemplastis Gliserol. Jurnal Teknik Kimia. 2015;20(4).
34. Hartati I, Riwayati I, Kurniasari L. Pembuatan Polihidroksialkanoat Dari Limbah Cair Industri Terigu Dalam Sequencing Batch Reactor. Momentum. 2009;5(1):11–5.
35. Djamaan A. Konsep Produksi Biopolimer P(3HB) dan P(3HB-ko-3HV) Secara Fermentasi. Padang: Andalas University Press; 2015.
36. Djamaan A. Penghasilan dan Pencirian P (3HB) dan P (3HB-ko-3HV) dari Berbagai Sumber Karbon oleh *Erwinia* sp USMI-20. PhD Thesis. 2004;
37. Satwika P, Pujawati A. Studi Produksi Plastik PHA dengan Pengaruh Penggunaan Media Minimal Cair dan Glukosa oleh *Ralstonia pickettii*. 2016;5(1):6–9.
38. Peña C, Castillo T, García A, Millán M, Segura D. Biotechnological strategies to improve production of microbial poly-(3-hydroxybutyrate): A review of recent research work. Microbial Biotechnology. 2014;7(4):278–93.
39. Kosseva MR, Rusbandi E. Trends in the biomanufacture of polyhydroxyalkanoates with focus on downstream processing. International journal of biological macromolecules. 2018;107:762–78.
40. Djamaan A. Biosynthesis of a biopolymer poly(3-hydroxybutyrate). Majalah Farmasi Indonesia (22)4, 315 – 322, 2011. 2011;(22):315–22.
41. Walker J., Gingold E. Molecular Biology and Biotechnology third edition. The Royal Society of Chemistry; 1993.
42. Pelczar MJ, others. Dasar-dasar mikrobiologi. 1988;
43. Rahman A. Teknologi fermentasi. Arcan Jakarta. 1992;5–49.
44. Radiawati LE, Andriani RD, Apriliyani MW, Rahayu PP. Mikrobiologi Dasar Hasil Ternak. Malang: UB Press; 2019.

45. Hidayat N. Bioindustri. Universitas Brawijaya Press; 2017.
46. Schaechter M. Encyclopedia of microbiology. Academic Press; 2009.
47. Lantang D, Runtuboi DYP. Karakterisasi Bakteri *Bacillus thuringiensis* asal Hutan Lindung Kampus Uncen Jayapura, serta Deteksi Toksisitasnya terhadap Larva Nyamuk Anopheles. Jurnal Biologi Papua. 2012;4(1):19–24.
48. Wick CH. Identifying Microbes by Mass Spectrometry Proteomics. CRC Press; 2013.
49. IG Gandjar AR. Kimia Farmasi Analisis. Yogyakarta: Pustaka Pelajar; 2007.
50. Djamaan A, AP D. Metode Produksi Biopolimer dari Minyak Kelapa Sawit, Asam Oleat, dan Glukosa. Padang: Andalas University Press; 2014.
51. Watson DG. Analisis Farmasi: Buku Ajar Untuk Mahasiswa Farmasi dan Praktisi Kimia Farmasi, Edisi 2. ECG, Jakarta. 2010;313–4.
52. McNair HM, Miller JM, Snow NH. Basic gas chromatography. John Wiley & Sons; 2019.
53. Paju N, Yamlean PVY, Kojong N. Uji efektivitas salep ekstrak daun binahong (*Anredera cordifolia* (Ten.) Steenis) pada kelinci (*Oryctolagus cuniculus*) yang terinfeksi bakteri *Staphylococcus aureus*. Pharmacon. 2013;2(1).
54. Hermawan A, Hana E, Wiwiek T. Pengaruh Ekstrak Daun Sirih (*Piper betle* L.) terhadap pertumbuhan *Staphylococcus aureus* dan *Escherichia coli* dengan Metode Difusi Disk. 2007;
55. Wijayati N, Astutiningsih C, Mulyati S, Artikel I. Transformasi α -Pinena dengan Bakteri *Pseudomonas aeruginosa* ATCC 25923. Biosaintifika: Journal of Biology & Biology Education. 2014;6(1):24–8.
56. Saropah DA, Jannah A, Maunatin A. Kinetika reaksi enzimatis ekstrak kasar enzim selulase bakteri selulolitik hasil isolasi dari bekatul. Alchemy. 2012;
57. Irwandi, Djamaan A, Agustien A. Pengaruh Konsentrasi Minyak Kelapa Sawit Mentah Terhadap Jumlah Biomassa Bakteri *Bacillus* spp. Penghasil Biopolimer Poli (3-Hidroksibutirat). 2018;8(1):64–72.