

DAFTAR PUSTAKA

- Ahern, T.J. and A.M. Klibanov. 1987. Why do enzyme irreversibly inactive at high temperature. Biotec 1. *Microbial Genetic Engineering and Enzyme Technology*. Gustav Fischer. Stuttgart. New York. 131-136.
- Anggraini, N. 2011. *Peningkatan Kestabilitas Enzim -amilase dari Bacillus subtilis ITBCCB148 Dengan Modifikasi Kimia Menggunakan Asam Glioksilat*. (Skripsi). Universitas Lampung. Bandar Lampung.
- Apriyanti. 2010. *Peningkatan Kestabilitas Enzim -amilase dari Bacillus subtilis ITBCCB148 Dengan Modifikasi Kimia Menggunakan Dimetiladipimidat*. (Skripsi). Universitas Lampung. Bandar Lampung.
- Biogen. 2008. Amilase. Tersedia dalam http://biogen.litbang.deptan.go.id/terbitan/agrobio/abstrak/agrobio_vol. diakses tanggal 14 april 2014
- Boyer, R.F. 1993. *Modern Experimental Biochemistry*. Benjamin Cumming Publishing Company. California. 48-49.
- Duff, S.J.B and W. D. Murray, 1996. Bioconversion of forest products industry waste cellulosics to fuel ethanol: a review. *Bioresource Technology*. **55**:1-33.
- Dwidjoseputro, D. 2005. *Dasar-Dasar Mikrobiologi*. Djambatan. Malang Halaman 180-181.
- Dryer, R.L., dan R. Montgomery. 1993, *Biokimia Suatu Pendekatan terorientasi Kasus*, Gadjah Mada University Press. Yogyakarta. 180-181.
- Eijnsink, G.H., Sirgit, G. Torben, V. Bertus van de Burg. 2005. Directed Evolution of Enzyme Stability. Biomolecular Engineering. *Elsevier Science Inc*. New York. **23**:21-30.
- Fowler M. W. 1988. “Enzyme Technology” in Biotechnology For Engineers, Biological System in Technological Processes, Edited : Scragg, A. H.,

- John Wiley & Sons, New York.
- Gandjar, I., Sjamsuridzal, W. and Oetari, A. 2006. Mikologi Dasar dan Terapan. Jakarta: Yayasan Obor Indonesia.
- Goddete, D.W, C. Terri, F.L. Beth, L. Maria, R.M. Jonathan, P.Christian, B.R. Robert, S.Y.Shiow, C.R. Wilson. 1993. Strategy and implementation of a system for protein engineering. *Journal of Biotechnology*. **28**: 41-54.
- Inchem. 2008. Alpha-Amylase From *Bacillus subtilis*. Tersediadalam <http://www.inchem.org/documents/jecfa/jecmono/v28je05.htm>. diakses tanggal 14 april 2014.
- Janecek, S. 1993. Strategies for Obtaining Stable Enzymes. *Process Biochemistry*. **28**: 435-445.
- Kazan, D, H. Ertan, A. Erarslan. 1997. Stabilization of *Escherichia coli* Penicillin G Acylase agains thermal Inactivation by cross-linking with dextran dialdehyde polymers. *Applied. Microbiology and Biotechnology*. **48**: 191-197.
- Khajeh, K, Naderi-Manesh, H., Ranjbar, B., Moosavi-Movahedi, A. A, Nemat-Gorgani, M. 2001. Chemical Modification of Lysine Residues in *Bacillus* Alpha-Amylases: Effect on Activity And Stability. *Enzyme Microbiology Technology*. **28**: 543-549.
- Lay, B. W. and Sugyo,H. 1992. *Mikrobiologi*. Rajawali Pers. Jakarta. 107-112.
- Lehninger, A.L. 1982. *Dasar-Dasar Biokimia*. Erlangga. Jakarta.369 halaman.
- Lowry, O. H., N. J., Rosebrough, A. L., Farr, R. J. Randall. 1951. Protein measurement with the folin phenol reagent. *Journal of Biology and Chemistry*. 193-265.
- Mandels, M., A. Raymond, R. Charles. 1976. Measurement of saccharifying cellulose. *Biotechnology and Bioengineering*. John Wiley & Sons Inc.
- Martoharsono, S., 1984. *Biokimia*. UGM Press. Yogyakarta. 81-83.
- Mitidieri S., S.A.H. Martinelli, S. Augusto dan H.V. Marilene, 2006, *Enzymatic Detergent formulation containing amylase from Aspergillus niger: A comparative study with commercial detergent formulations*, Boiresour. Technol. **97** (10): 1217-1224.
- Mozhaev, V.V. and K. Martinek. 1984. Structur-Stability Relationship in Protein: New Approaches to Stabilizing Enzymes. *Enzyme Microbial Technology*. 50-59.

- Mozhaev, V.V., N.S. Melik-Nubarov, V.A. Siksnis and K. Martinek. 1990. Strategy for Stabilizing Enzymes. Part Two: Increasing Enzyme Stability by Selective Chemical Modification. *Biocatalysts.* **173:** 189-196.
- Nubarov, N.S., V.V. Mozheav, V.A. Siksnis, K. Martinek. 1987. Enzyme Stabilization of -Chymotrypsin by Reductive Alkylation with Glyoxylic Acid. *Biotechnology.* **9:** 725-730.
- Oliveira. 2004. Rhizobia Amylase Production Using Various Starchy Substances as Carbon Substrates. Tersedia dalam <http://www.scielo.br/pdf/bjm/v31n4/a11v31n4.pdf>. diakses tanggal 14 april 2014
- Page, D.S. 1997. *Prinsip-Prinsip Biokimia.* Erlangga. Jakarta. 465 halaman.
- Pelczar, M.J. and E. C. S. Chan. 1986. *Dasar- Dasar Mikrobiologi.* UI Press. Jakarta. 409.
- Poedjiadi, A.1994. *Dasar-dasar Biokimia.* Jakarta.UI-Press. 155, 158-160
- Pohl, T. 1990. *Concentration of protein removal of salute dalam M.P. Deutscher, Methods of Enzymology: Guide to Protein Purification.* Vol :182. Academic Press. New York.
- Rao, Subba N.S. 1998. *Mikroorganisme Tanah dan Pertumbuhan.* UI Press. Jakarta. 228-229.
- Rodwell, V.W. 1987. *Harper's Review of Biochemistry.* EGC Kedokteran. Jakarta.
- Sariningsih, R. 2000. *Produksi Enzim Protease oleh Bacillus subtilis BAC-4.* (Skripsi). Institut Teknologi Bandung. Bandung.
- Scopes, R.K. 1982. *Protein Purification.* Springer Verlag. New York. 4-6.
- Sobreira A.G., Nascimento R.S., Taborda M.L., CunhaMorales A.A, Pepe deMoraes L., Araripe F.G.T., SoniaMaria dan José C.U, 2011, *Biochemical And Structural Characterization Of Amyl: An Alpha-Amylase Fromcryptococcus Flavus Expressed In Saccharomyces Cerevisiae,* SAGE-Hindawi access to research, enzyme research.
- Soemitro, S. 2005. Pengaruh Modifikasi Kimiawi Selektif Terhadap Kestabilan -Amilase dari *Saccharomyopsis fibuligera.* *J. Bionatura.* Vol. **7(3) :** 259-273.
- Suganthi, R., Benazir, J.F., Santhi R., Kumar R.V., Hari A., Meenakshi N., Nidhiya K.A., Kavitha G., dan Lakshmi R., 2011, *Amylase Production by Aspergillus niger under Solid State Fermentation Using Agroindustrial*

- Wastes, Internetional Journal of Engineering Science and Technology (IJEST), 1736-1739.
- Suhartono, M.T. 1989. *Enzim dan Bioteknologi*. PAU IPB. Bogor.
- Sundari, E S. 2011. *Peningkatan Kestabilitas Enzim -amilase dari Bacillus subtilis ITBCCB148 Dengan Modifikasi Kimia Menggunakan Sitrakonat Anhidrida*. (Skripsi). Universitas Lampung. Bandar Lampung.
- Stahl, S. 1999. Thermophilic Microorganism: The Biological Background for Thermophily and Thermoresistence of Enzyme in *Thermostability of Enzyme*. Gupta M. N editor. Springer Verlag. New Delhi. 59-60.
- Synder, S.L. and P.Z. Sobocinski. 1975. An Improved 2,4,6-Trinitrobenzenesulfonic Acid Method for The Determination of Amines. *Anal, Biochem.* **64**: 284-288.
- Virdianingsih, R. 2002. *Mempelajari Stabilitas Termal dari Bacillus pumilus y1 dalam pelarut Heksana, Toluena, dan Benzena*. (Skripsi). Institut Pertanian Bogor. Bogor.
- Walsh, G. and D.R. Headon. 1994. *Protein Biotechnology*. John Willey and Sons. New York.
- Winarno, F.G. 1986. *Enzim Pangan dan Gizi*. PT. Gramedia Pustaka Utama. Jakarta. 155 halaman.
- Wirahadikusumah, M. 1997. *Biokimia: Protein, Enzim dan Asam Nukleat*. ITB. Press. Bandung. 91 halaman.
- Yandri, A.S., Dian H. and Tati S. 2007. Isolasi, Pemurnian dan Karakterisasi Enzim Protease Termostabil Dari Bakteri Isolat Lokal Bacillus subtilis ITBCCB148. *Jurnal Sains MIPA* . **13** (2): 100-106.
- Yang, Z., D. Michael, A. Robert, X.Y. Fang and J.R. Alan . 1996. Polyethylene Glycol-Induced Stabilization of Subtilisin. *Enzyme Microbial Technology*, **18**: 82-89.