

DAFTAR PUSTAKA

- Brock, T.D., Madigan, M.T., Martinko, J.M., & Parker, J. 1994. *Riologi of microorganism*. 7th Edition, Prentice hall. New Jersey.
- Brown, T.A. 1995. *Gene Cloning: an introduction*. Chapman & Hall.
- Crueger, W., dan Crueger, A. 1984. *Biotechnology: a textbook of industrial microbiology*. Science Tech, Inc.
- Gale, E.F., Cundliffe, E., Reynolds, P.E., Richmond, M.H., dan Waring, M.J. 1981. *The molecular basic of antibiotik action*. 2nd Edition. John Wiley & Sons.
- Illanes, A., Acevedo, F., Gentina, J.C., Reyes, L., Torres, R., Cantagena, O., Ruiz, A., dan Vasque, M. 1994. Production of penicillin acylase from *Bacillus meguterium* in complex and define media. *Process Biochemistry*, 29: 263-270.
- Innis, M.A., and Gelfand, H. 1994. *Optimization of PCR : PCR Protocols, A Guide to Method and Applications*, Academic Press, Inc., California, 3-12.
- Khiong. 1999. Hibridisasi Genom *Bacillus sp.* Strain BAC4 Menggunakan "Probe" Cen Pengkode Penisilin G Asilase. *Tesis Magister*. Bidang Khusus Genetika dan Biologi Molekuler Program Studi Biologi. Program Pascasajana. Institut Teknologi Bandung.
- Martin,, L., Prieto, M.A., Cortes, E., dan Garcia, J.L. 1995. Cloning and sequencing of the PAC gene and coding the penicillin G acylase of *Bacillus megaterium* ATCC 14945. *Fems Microbiology Letters*, 125:287-292.
- Meevotisom, V., dan Saunders, J.R. 1987. Cloning and expression of penicillin acylase gene from overproducing strains of *Escherichia coli* and *Bacillus megaterium*. *Applied and Microbiology Biotechnology*, 25: 372-378.
- Newton, C.A., dan Graham, A. 1997. *YCR*. 2nd Edition. βios Scientific Publisher.
- Olsson, a., Uhlen, M. 1986. Sequencing and heterologous expression of the gene encoding penicillin V amidase from *Bacillus sphaerichus*. *Gene* 45 (2): 175-181.
- Ospina, S.S., Munguia, A.L., Gonzales, RL., dan Quientero, R. 1992. Charaterization and use of penicilline acylase biocatalyst. *Journal of Biochemical Biotechnology*. 53:205-214.

- Ratnaningsih, E., Moeis, R.M., Achmad, S., Liang, O.B., dan Sastramihardja, I. 1998. Characterization of penicillin G acylase enzyme and gene from lokal strain *Bacillus* sp: culture enzyme, purification, and PCR experiments employing primers derived from *B. megaterium* *pga* gene. *Annual report I*. Graduate team Research Grant. URGE Project. Directorate General of Higher Education. Ministry of Education and Culture. Indonesia.
- Riniati. 1999. Usaha amplifikasi dan kloning fragmen gen Penisilin G Asilase *Bacillus* sp. BAC4 strain lokal. *Tesis Magister*. Bidang Kimia Organik. Program Magister Kimia. Institut Teknologi Bandung.
- Rondriquez, M.E., Quintero, R., Munguia, A.L. 1994. Design and kinetic characterization of a whole cell penicillin acylase biocatalys using *E.coli*. *Process Biochemistry* 29: 213-218.
- Sambrook, J., Fritsch, E.F., dan Maniatis, T. 1989. *Molecular cloning, A laboratory manual*. 2nd edition. Cold Spring Harbor Laboratories Press. Cold Spring Harbor.
- Shewale, J.G., dan Sivaraman, H. 1989. Penicillin acylase: enzyme production and its application in the manufacture of 6-APA. *Process Biochemistry August*: 146-154.
- Soeng, *et al.*, 2000. Determinasi Spesies *Bacillus* sp. Strain BAC Penghasil Penisilin Asilase Secara Molekuler Menggunakan PCR. *Laporan Penelitian*. Bagian Biologi. Fakultas Kedokteran. Universitas Kristen Maranatha.
- Sudhakaran, V.K., dan Shewale, J.G. 1995. Purification and characterization of extracellular penicillin V acylase from *Fusarium* sp. SKF 235. *Hindustan antibiot Bull* 37 (1-4): 9-15.
- Taylor, G.R. 1994. *Polymerase Chain Reaction: basic principles & automation*. dalam PCR volume 1: A practical approach. IRL. Press.
- Utami, *et al.*, 2001. Spesifisitas substrat *Bacillus* sp. BAC, strain lokal penghasil Penisilin Asilase. *Laporan Penelitian*. Bagian Biologi. Fakultas Kedokteran. Universitas Kristen Maranatha.
- Valle, F., Gosset, G., Tenorio, B., Oliver, G., dan Bolivar, F. 1986. *Gene* (20): 119-122.
- Valle, F., Balbas, P., Merino, E., dan Bolivar, F. 1991. The **role of** penicillin amidase in nature and in industry. *TIBS*, 16:36-40.

Vandamme, E.J., dan Voets, J.P. 1974. Microbial penicillin acylase. *Advance Apply Microbiology 1*.

Whitemann, P.A., Abraham, E.P. 1996. Phenoxymethylpenicillin amidohydrolases from *Penicillium crysogenum*. *FEBS Lett 394 (1)*: 31-33.