



DAFTAR PUSTAKA

- Anonim, 1986, *Dasar-dasar Pemeriksaan Mikrobiologi*, 114-115, Bagian Mikrobiologi Fakultas Kedokteran UGM, Yogyakarta
- Alicino, J.F., 1961, *Analytical Chemistry*, 33, 648
- Astuti, H., 1991, *Berbagai Media Tumbuh Escherichia coli Untuk Mengubah Benzilpenisilin Menjadi Asam 6 Aminopenisilanat*, Skripsi, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Baldwin, E., 1967, *The Nature of Biochemistry*, 36-43, Cambridge University Press.
- Bomstein, J. and Evans, W.G., 1965, Automated Colorimetric Determination of 6-aminopenicillanic Acid, in Lawrence, T.H., (Ed.), *Analytical Chemistry*, 37, No. 3, 576-578, American Chemical Society Publications, Reinhold Publishing Corp., Washington.
- Campbell, N.P. and Smith, A.D., 1982, *Biochemistry Illustrated*, 36-50, Churchill Livingstone.
- Chaplin, M.F. and Bucke, C., 1990, *Enzyme Technology*, 1st Ed., 40-74, Cambridge University Press, Cambridge, New York, Port Chester, Melbourne, Sydney
- Clark, J.M. and Switzer, R.L., 1977, *Experimental Biochemistry*, 2nd Ed., 65-123, W.H. Freeman and Co., San Francisco.
- Cole, M., 1969, *Biochemistry Journal*, 115, 733-745.
- Cole, M., Savidge, T. and Vanderhaeghe, 1961, Penicillin Acylase (Assay), in *Antibiotic Inactivation and Modification*, 698-704.
- Collowick, S.P. and Kaplan, 1952, Preparation Buffers for Use in Enzymes studies, in Gomori, G., (Ed.), *Methods in Enzymologi*, Vol. 1, 138, Academic Press Inc., New York.
- Crueger, W. and Crueger, A., 1984, *Biotechnology, A Textbook of Industrial Microbiology*, 1st Ed., 178-180, Science Tech. Inc. USA.
- Dixon and Webb, 1964, *Enzymes*, 23-53, Academic Press Inc., New York.



- Harper, H.A., Victor, W.R. and Peter, A.M., 1979, *Biokimia*, diterjemahkan oleh Martin Muliawan, Edisi 17, 58-73, 80-102, EGC Penerbit Buku Kedokteran, Jakarta.
- Higuchi, T. and Hanssen, E.B., 1961, *Pharmaceutical Analysis*, 426-428, Interscience Publishers, New York.
- Isnaeni, 1990, Biokonversi Benzilpenisilina Menjadi 6-APA oleh Sel Amobil *E. coli*, *Bulletin ISFI Jatim*, Volume 20 No. 1-2, 37-46
- Jawetz, E., Melnick, J.L. and Adelberg, E.A., 1986, *Mikrobiologi untuk Profesi Kesehatan*, diterjemahkan oleh Gerard Bonang, 48-63, EGC Penerbit Buku Kedokteran, Jakarta.
- Lagerlof, E., Nathorst, L.W., Ekstrom, B. and Sjoberg, B., 1976, Production of 6 Aminopenicillanic Acid with Immobilized *Escherichia coli* Acylase, in *Application of Immobilized Enzymes*, 765-768.
- Lehninger, A.L., 1990, *Dasar-Dasar Biokimia*, diterjemahkan oleh Maggy Thenawidjaya, Jilid Pertama, 235-260, Erlangga, Jakarta.
- Moss, M.O., 1977, Enzymic Alterations of Penicillins and Cephalosporins, in Wiseman, A., (Ed.), *Enzyme and Fermentation Biotechnology*, 114-123, Ellis Horwood Limited, New York.
- Nayler, J.H.C., 1991, Semi Synthetic Approaches to Novel Penicillins, *TIBS 16, June*, 234-237, Elsevier Science Publishers.
- Pachla, L.A., Wright, D.S. and Reynolds, D.L., 1986, Bioanalytic Consideration for Pharmacokinetic and Biopharmaceutic Studies, in *Journal Clinical Pharmacology*, 26, 332-335.
- Rahayu, A.M., 1989, *Kemampuan Escherichia coli Koleksi Laboratorium Mikrobiologi Fakultas Kedokteran Umum UGM dalam Memfermentasikan Benzilpenisilin*, Skripsi, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Sa'id, E.G., 1987, *Bioindustri : Penerapan Tehnologi Fermentasi*, edisi I, 1-88, PT Mediyatama Sarana Perka-sa, Jakarta
- Salle, A.J., 1961, *Fundamental Principles of Bacteriology*, 5th Ed., Mc. Graw-Hill Book Company, Inc, New York, Toronto London



- Savidge, T.A. and Cole, M., 1969, Penicillin Acylase (Bacterial), in *Antibiotic Inactivation and Modification*, 705-717
- Scopes, R.K., 1988, *Protein Purification : Principles and Practice*, 2nd Ed., 100-105, Spinger-Verlag New York Inc
- Smith, J.E., 1990, *Prinsip Bioteknologi*, diterjemahkan oleh Sumo, U.F., Sumantri, B., Subono, A., 135-139, PT Gramedia, Jakarta.
- Stahl, E., 1969, *Thin-Layer Chromatography : A Laboratory Handbook*, 571, 575, Toppan Company Limited, Tokyo, Japan
- Trihendrokesowo, Koesnijo dan Suwarji, 1984, *Mikrobiologi Bakteriologi Khusus II*, 1-6, Bagian Mikrobiologi Fakultas Kedokteran UGM, Yogyakarta
- Valle, F., Balbas, P., Merino, E. and Bolivar, F., 1991, The Role of Penicillin Amidase in Nature and in Industry, *TIBS 16, January*, 36-40, Elsevier Science Publishers Ltd.
- Wibowo, L.T., 1990, *Pengaruh Penambahan Asam Fenilasetat Terhadap Kemampuan Escherichia coli dalam Mengubah Benzilpenisilin menjadi Asam 6-aminopenisilanat*, Skripsi, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Wongsosupantio, S., 1983, *Isolasi dan Karakterisasi Suatu Protease Sulfhidril dari Spermatozoa Sapi Friesian Holstein*, Disertasi, Institut Tehnologi Bandung, Bandung.