

บรรณานุกรม

- วรางคณา วรณวงศ์. “การคัดเลือกฟังไจจากดินและสภาวะที่เหมาะสมต่อการผลิตแมนนาเนส”.
วิทยานิพนธ์ปริญญาวิทยาศาสตรมหาบัณฑิต สาขาวิชาชีววิทยา บัณฑิตวิทยาลัย
มหาวิทยาลัยเชียงใหม่, 2539.
- อนุวัฒน์ จรัสรัตนไพฑูรย์. “การแยกและคัดเลือกเชื้อเอนโดไฟติกฟังไจจากต้นกุ่มที่สามารถผลิต
เอนไซม์แมนนาเนส”. รายงานการวิจัยปริญญาวิทยาศาสตรบัณฑิต ภาควิชาชีววิทยา คณะ
วิทยาศาสตร์และเทคโนโลยีสถาบันราชภัฏเชียงใหม่, 2541.
- ชนิด พิวนิม. 2540. ชีวเคมีกับการพัฒนาผลิตภัณฑ์ที่มีลักษณะพิเศษ: การผลิตโอลิโกแซคคาไรด์
จากน้ำตาลและแป้ง. วารสารวิทยาศาสตร์, 51(3): 207-215.
- Araujo, A. and Ward, O.P. 1990. Hemicellulase of *Bacillus* species: preliminary comparatives on
production and properties of mannanase and galactanase. *Journal of Applied
Bacteriology*. 68: 253-261.
- Araujo, A. and Ward, O.P. 1990. Extracellular mannanase and galactanase from selected fungi.
Journal of Industrial Microbiology. 6:171-178.
- Arcand, N., Kluepfel, D., Paradis, F. W., Morosoli, R. and Shareck, F. 1993. Beta-mannanase of
Streptomyces lividans 66: cloning and DNA sequence of the mRNA gene and
characterization of enzyme. *Biochemical Journal*. 290: 857-863.
- Arisan-Atac, I., Hoditis, R., Kristufek, D. and Kubicek, C. P. 1993. Purification and
characterization of a beta-mannanase of *Trichoderma reesii* C-30. *Applied
Microbiological Biotechnology*. 39(1): 58-62.
- Atlas, R. M., 1993. *Handbook of Microbiological Media*. CRC Press, Inc. USA.
- Dindal, D. L., 1990. Actinomycetes. *Soil Biology Guide*. A Wiley Interscience Publication USA.
- Dong, X.Z., Schyns, P.J. and Stams, A. J. 1991. Degradation by a *Clostridium butyricum* strain.
Antonie-Van-Leuwenhoek. 60(2): 109-114.
- Downie, B., Holhorst, H. W. M. and Bewley, J. D. 1994. A new assay for quantifying endo-beta-
D-mannanase activity using congo red dye. *Phytochemistry*. 36(4): 829-835.
- El-Helow, E. R., Sabry, S. A. and Khattab, A. A. 1997. Production of β -mannanase by *Bacillus
subtilis* from agro- industrial by products: screening and optimization. *Journal of
Antonie-Van Leuwenhoek*. 71:189-193.

- Firantas, S. G., Venozhinskene, I. Y. and Paulykonis, A. B. 1982. Determination of β -mannanase activity by the viscosimetry and spectrophotometric method. *Microbiology*. 18 (4): 461-466.
- Fulop, L. and Ponyi, T. 1997. Rapid screenig for endo- β - 1,4- glucanase and endo- β -1,4-mannanase activities and specific measurement using soluble dye labelled substrate. *Journal of Microbiological Methods*. 29: 15-21.
- Galatenko, O. A. and Terekhova, L. P. 1990. Isolation of antibiotic-producing actinomycetes from soil samples exposed to UV light. *Antibiot-Khimioter*. 35(11): 6-8.
- Ghareib, M. and Nour-el-Dein, M. M. 1994. Lytic activity of enzyme preparation from *Aspergillus carbonarius*. *Acta-Microbiol-Pol*. 43(3-4): 321-325.
- Goldberg, R., Gillou, L., Prat, R., Herve-Du-Penhoat, C. and Michon, V. 1991. Structural feature of the cell wall polysaccharides of *Asparagus officinalis* seeds. *Carbohydrate Research*. 210: 263-276.
- Hayakawa, M., Momose, Y., Kajura, T., Yamazaki, T., Tamura, T., Hatano, K. and Nonomura, H. 1995. A selective isolation method for *Actinomadura viridis* in soil. *Journal of Fermentation and Bioengineering*. 79(3): 287-289.
- Hayakawa, M., Momose, Y. and Nonomura, H. 1996. A method for the selective isolation of *Microtetraspora glauca* and related four-spored actinimycetes from soil. *Journal of Applied Bacteriology*. 80: 375-386.
- Hayakawa, M., Sadakata, T., Kajura, T., and Nonomura, H. 1991. New methods for the mighty selective isolation of *Micromonospora* and *Microbispora* from soil. *Journal of Fermentation and Bioengineering*. 72(5): 320-326.
- Holt, G. R., Krieg, R. N., Sneath, H. A., Staley, T. J. and Williams, T. S. 1994. *Bergey's Manual of Determinative Bacteriology*. Ninth edition. Williams & Wilkins. Maryland. 605-703.
- Hsu, S.C. and Lockwood, J.L. 1975. Powdered chitin agar as a selective medium for enumeration of actinomycetes in water and soil. *Applied Microbiology*. 29(3): 422-426.
- Itoh, H. and Kamiyama, Y. 1995 . Synthesis of Alkyl β - Mannosides from Mannobiose by *Aspergillus niger* β -Mannosidase. *Journal of Fermentation and Bioengineering*. 79(4).
- Johnson, K.G. 1990. Exocellular β -mannanases from hemicellulolytic fungi. *World Journal of Microbiology and Biotechnology*. 6: 209-217.

- Kudo, S. 1992. Enzymatic basis for protection of fish embryo by fertilization envelope. *Experientia*. 48(3): 277-281.
- Labeda, D. P. 1987. Actinomycetes taxonomy: generic characterization. *Journal of Industrial Microbiology*. 28(2):115-121.
- Marga, F., Ghakis, C., Dupont, C., Morosdi, R. and Kluepfel, D. 1996. Improve production of mannanase by *Streptomyces lividans*. *Applied and Environmental Microbiology*. 62 (12) : 4656-4658.
- Mendoza, N. S., Arai, M., Kawaguchi, T., Cubol, F. S., Panerio, E. G., Yoshida, T. and Joson, L. M. 1994. Isolation of mannan - utilizing bacteria and the culture conditions for mannanase production. *World Journal of Microbiology and Biotechnology*. 10: 51-54.
- Mendoza, N. S., Cubol, F. S., Panerio, E. G. and Joson, L. M. 1992. Isolation and characterization of mannanolytic bacterium. *Philippines Journal of Science*. 121(2): 101-105.
- Moo-Young, M. 1985. *Comprehensive Biotechnology*. Vol4. Pergamon Press Ltd. USA.
- Oda, T. and Tonomura, K. 1996. Characterization of β -mannanase and β -mannosidase secreted from the yeast *Trichosporon cutaneum* JCM 2947. *Applied Microbiology*. 22: 173-178.
- Onishi, N. and Yokozeki, K. 1996. Gluco-oligosaccharide and galacto-oligosaccharide production by *Rhodotorula minuta* IFO 879. *Journal of Fermentation and Bioengineering*: 82(2): 124-127.
- Ooi, T. and Kikuchi, D. 1995. Purification and some properties of β -mannanase from *Bacillus* sp. *World Journal of Microbiology and Biotechnology*. 11:310-314.
- Peterlini, B., Quaroni, S. and Sardi, P. 1993. A new genus of the maduromycetes: *Planopolyspora* gen. nov. *Actinomycetes*. 4: 8-16.
- Ratto, M. and Poutanen, K. 1988. Production of mannan degrading enzymes. *Biotechnology Letters*. 10(9): 661-664.
- Sardi, P., Saracchi, M., Quaroni, S., Peterlini, B., Borgonovi, G.E. and Merli, S. 1992. Isolation of endophytic *Streptomyces* strains from surface-steriled roots. *Applied and Environmental Microbiology*. 58(8): 2691-2693.
- Shearer, M.C. 1987. Methods for the isolation of non-streptomycete actinomycetes. *Developments in Industrial Microbiology*. 28: 91-97.
- Soles, E.J. *Wood and Agricultural Residues*. Academic Press. Inc. USA., 1993.

- Tamaru, Y., Araki, T., Morishita, T., Kimuro, T., Sakka, K. 1997. Cloning, DNA sequencing, and expression of the β -1,4-mannanase gene from a marine bacterium, *Vibrio* sp. strain MA-138. *Journal of Fermentation and Bioengineering*. 83(2): 201-205.
- Thomas, P.L. and Co. Inc. 1998. *World Wide Web*. 4 Headquarters Plaza P.O. Box 612 Morristown, NJ. 07963-0612 USA.
- Underwood, M. and Brumer, H. 1997. Synthesis of substrate for, and isolation of, the mannanase from *Phanerochaete chrysosporium*. *World wide web*. Department of Manchester Institute of Science and Technology, Manchester, UK.
- Wozniowski, T., Blaschek, W. and Franz, G. 1992. Isolation and characterization of an endo-beta-mannanase of *Lilium testaceum* bulbs. *Phytochemistry*. 31(10): 3365-3370.
- Yalpani, M. *Polysaccharide*. Elsevier Science. Publishing Co. Inc. USA., 1988.
- Yamaura, T. and Matsumoto, T. 1993. Purification and some properties of endo-1,4-beta-D-mannanase from a mud snail, *Pomacea insularis* (de Ordigny). *Biosci-Biotechnol-Biochem*. 57(8): 1316-1319.