เอกสารอ้างอิง

ศิริพงษ์ วิงวอน. 2539. การควบคุมอัตราส่วนของคาร์บอนต่อไนโตรเจนในสารป้อนเพื่อเพิ่มอัตราการผลิตของพอลิ-บีตา-ไฮดรอกซีบิวทิเรต จาก *Alcaligenes eutrophus* ATCC 17697 ในถังปฏิกรณ์ชีวมวลแบบกึ่งต่อเนื่อง. วิทยานิพนธ์มหาบัณฑิต ภาควิชาวิศวกรรมเคมี คณะวิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย.

เสริมพล รัตนสุข และ ไชยยุทธ์ กลิ่นสุคนธ์. 2525. การกำจัดน้ำทิ้งจากอุตสาหกรรมแหล่งชุมชน. กรุงเทพ. สถาบันวิทยาศาสตร์และเทคโนโลยีแห่งประเทศไทย.

Alexander, S. and Tina, L. E. 2003. Metabolic and pathway construction for biotechnological production of relevant polyhydroxyalkanoates in microorganisms. J. Biochem. Eng. 16 : 81-96.

Anderson, A. J. and Wynn, J. P. 1995. Microbial Polyhydroxyalkanoates, Polysaccharides and Lipids. *In Basic Biotechnology*. 2nd ed. (Ratledge, C. and Kristiansen, B., eds.). p.325-333. Cambridge University Press. Cambridge.

A.O.A.C. 1999. Official of Analysis of Association of Official Analytical Chemists. 16th ed. The Association of Official Analytical Chemists, Inc.

APHA, AWWA and WPCF. 1998. Standard Method for Examination of Waste and Wastewater. 18thed. American Public Health Association. New York.

Arunpan, N. 1998. Production of Poly-ß-hydroxyalkanoate from Microorganism. Master of Science Thesis in Biotechnology. Prince of Songkla University.

Beyatli Y. 2002. Accumulation of polyhydroxybutyrate in *Streptomyces* specie during growth with difference nitrogen source. Turk. J. Biol. 26 : 71-74.

Boom, S. K., Seung, C. L., Sang, Y. L., Ho, N. C., Yong, K. C. and Seong, I. W. 1994. Production of poly (3-hydroxybutyric acid) by fed batch culture of *Alcaligenes eutrophus* with glucose concentration control. Biotechnol. Bioeng. 43 : 892-898.

Bomann, E. J. and Roth, M. 1999. The production of polyhydroxybutyrate by *Methylobacterium rhododesianum* and *Ralstonia eutropha* in medium containing glycerol and casein hydrolysate. Biotechnol. Lett. 21 : 1059-1063.

Doi, Y. 1990. Microbial Polyester. VCH, New York. 156 pp.

Ganzeveld, K. J., Hagen, A. V., Agteren, M. H. V., Koning, W. D. anf Uiterkamp, A. J. M. S. 1999. Upgrading of organic waste: production of copolymer poly-3-hydroxybutyrate-co-valerate by *Ralstonia eutrophus* with organic waste as sole carbon source. J. Clean. Prod. 7 : 413-419.

Grothe, E., Murray, M. Y. and Yusuf, C. 1999. Fermentation optimization for the production of poly (β-hydroxybutyric acid) microbial thermoplastic. Enzyme Microb. Tech. 25 : 132 – 141.

Hocking, P. J. and Marchessault R. H. 1992. Chemistry and technology of biodegradable polymers. Biopolyesters. 48 - 95.

Huang, Y. L., Wu, Z., Zang, L., Cheug, C. M. and Yang, S. T. 2002. Production of carboxylic acids from hydrolyzed corn meal by immobilized cell fermentation in fibrous-bed bioreactor. Bioresource Technol. 1 : 51-59.

Jogdand, S. N. 2004. Welcome to the Eco-Friendly Plastic (online). Available: http://www.biotechsupportindae.com/jogsn/.html (2004, March)

Khanna, S. and Srivastava, A. K. 2005. Recent advances in microbial polyhydroxyalkanoates. Process Biochem. 40: 607-619

Kim, B. S., Lee, S. Y., Chang Y. K. and Woo, S. I. 1994. Production of poly(3-hydroxybutyric acid) by fed-batch culture of *Alcaligenes eutrophus* with glucose concentration control. Biotechnol. Bioeng. 48: 892-898.

Lakshman, K., Rastogi N. K., and Shamala T. R., 2004. Simultaneous and comparative assessment of parent and mutant strain of *Rhizobium meliloti* for nutrient limitation and enhanced polyhydroxyalkanoate (PHA) production using optimization studies. Process Biochem. 39 : 1977-1983.

Lee, S. P. 1995. Bacterial Polyhydroxyalkanoates. Rev. Biotechnol. Bioeng. 49 : 1 –14.

Lee, S. and Yu J., 1997. Production of biodegradable thermoplastics from municipal sludge by a two-stage bioprocess. Conserv. Recycling. 19: 51-64.

Lee, H. W., Mohd, N. M. and Sudesh, K. 2004. Effects of culture conditions on the composition of poly (3-hydroxybutyrate-co-4-hydroxybutyrate) synthesized by *Comamonas acidovorans*. Polym. Degrad. Stabil. 84: 129 – 134.

Luengo, M. J., Garcia, B., Sandoval, A., Noharro, G. and Olivera, R. E. 2003. Bioplastics from microorganisms. Curr.Opin. Biotech. 6 : 251-260.

Netravali, A. N. and Lou, S. 2003. A study of physical and mechanical properties of poly(hydroxybutyrate-co-hydroxyvalerate) during composting. Polym. Degrad. Stabil. 80 : 59-66.

Reddy, C. S. K., Rashmi, R. G. and Kalia, V. C. 2003. Polyhydroxyalkanoates : an overview. Bioresource Technol. 4 : 137 - 146.

Ryu, H. W. , Hahn, S. K., Chang, Y. K. and Chang, H. N. 1996. Production of poly (3 - hydroxybutyrate) by high cell density fed–batch cultture of *Alcaligenes eutrophus* with phosphate limitation. Biotechnol. Bioeng. 55 : 28 –32.

Shimizu, H., Shioya, S. and Suya, K. I. 1990 Cultivation condition for production of biodegradable poly-ß-hydroxybutyric acid by *Alcaligenes eutrophus* H16. In Annual Report of IC biotech (ed. Oshima, Y.) Osaka University. Osaka. pp. 113-119.

Slater, S., Gallaher, T. and Dennis, D. 1992. Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) in a recombinant *Escherichia coli* strain. Appl. Environ. Microb. 58 : 1089-1094.

Sudesh, H., Abe, H. and Doi, Y. 2000. Synthesis, structure and properties of Polyhydroxyalkanoates : biological polyesters. Prog. Polym. Sci. 25 : 1503 –1555

Thanakoses, P., Black, A.S. and Holtzapple, M.T. 2003. Fermentation of corn stover to carboxylic acids. Biotechnol. Bioeng. 83 : 191 – 200.

Yagi, K., Miyawaki, I., Kayashita, A., Kondo, M., Kitano, Y., Murakami, Y., Maeda, I., Umeda, F., Miura, Y., Kawase, M. and Mizoguchi, T. 1996. Biosynthesis of poly(3-hydroxyalkanoic acid) copolymer from CO_2 in *Pseudomonas acidophila* through introduction of the DNA fragment responsible for chemolithoautotrophic growth of *Alcaligenes hydrogenophilus*. Appl. Environ. Microb. 62 :1004-1007.

Yan, Q., Du, G. and Chen, J. 2003. Biosynthesis of polyhydroxyalkanoates (PHAs) with continuous feeding of mixed organic acids as carbon sources by *Ralstonia eutropha*. Process Biochem. 39 : 387 – 391.

Yu, J. 2001. Production of PHA from starchy wastewater via organic acids. J. Biotechnol. 86 : 105 – 112.