

บรรณานุกรม

- สถาพร บุญสมบัติ และ วิชิต บัวแก้ว. (2530). กลศาสตร์ของการไหลประยุกต์. กรุงเทพฯ: สถาบันเทคโนโลยีพระจอมเกล้าพระนครเหนือ.
- สาโรจน์ ศรีศันสนียกุล วรสิทธิ์ ใจจำปา และ ประวิทย์ วงศ์คงคานเทพ. (2544). วิศวกรรมเคมี ชีวภาพพื้นฐาน 2. กรุงเทพฯ: สำนักพิมพ์จุฬาลงกรณ์มหาวิทยาลัย, 157-206.
- อริศรา เพื่องฟูชาติ. (2546). รีวิวโดยศาสตร์ที่สมผัสได้. วันที่ค้นข้อมูล 10 สิงหาคม 2547, เข้าถึงได้จาก <http://www.mtec.or.yh/th/labs/rheology/images/pdf/rheo-6-10-46.pdf>
- Adam, R. E., & Zimm, B. H. (1977). Shear degradation of DNA. *Nucleic acids Research*, 4, 1513 – 1537.
- Agerkvist, I., & Enfors, S. O. (1990). Characterisation of *E. coli* disintegrates from a bead mill and high pressure homogenisers. *Biotechnology and Bioengineering*, 36, 1083-1089.
- Atkinson, B., & Mavituna F. (1991). *Biochemical engineering and biotechnology Handbook*. Macmillan, Basingstoke.
- Birnboim, H. C., & Doly, J. (1979). A rapid alkaline extract procedure for screening recombinant plasmid DNA. *Nucleic Acids Research*, 4, 1513 – 1537.
- Blanche, F., Couder, M., & Wolfgang, J. (2001). Plasmid DNA purification using preparative continuous annular chromatography. Vitry-Sur-Seine Cedex, France, 42-44.
- Brown, T. A. (2001). *Gene cloning and DNA analysis an introduction*. Australia: Blackwell Science.
- Carlson, A., Signs, M., Liermann, L., Boor, R., & Jim Jem, K. (1995). Mechanical disruption of *E. coli* for plasmid recovery. *Biotechnology and Bioengineering*, 48, 303-315.
- Chamsart, S. (2001). Cell lysis reactor for production of plasmid DNA recombinant *E. coli* for gene therapy. Ph.D. Thesis, School of Chemical Engineering, The University of Birmingham, UK.
- Chen, S. J. (1975). Static mixing of polymers. *Chem Eng Prog*, 71, 80-83.

- Ciccolini, L. A. S., Ayazi Shamiou, P., Titcher-Hooker, N. J., Ward, J. M., & Dunnill, P. (1998). Time course of SDS – alkaline lysis of recombinant bacterial cells for plasmid relaxed. *Biotechnology and Bioengineering*, 60, 768-770.
- Ciccolini, L. A. S., Ayazi Shamiou, P., Titcher-Hooker, N. J., Ward, J. M., & Dunnill, P. (1999). Rheological properties of chromosomal and plasmid DNA during alkaline lysis reaction. *Biotechnology and Bioengineering*, 21, 231-237.
- Curless, C., Swank, K. Fu. R., Menjares, A., Fieschko, J., & Tsai, L. (1991). Design and evaluation of two-stage cyclic recombinant fermentation process, *Biotechnology and Bioengineering*, 38, 1082-1092.
- Drabek, D., Guy, J., & Grosveld, F. (1997). Expression of bacterial nitroreductase in transgenic mice results in specific cell killing by the prodrug CB1954, *Gene Therapy*, 4, 93-100.
- George, M. (2000). Precipitation and filtration on cell debris following alkaline cell lysis to recover plasmid. (M.sc. Thesis in Biochemical Engineering). School of chemical Engineering, The University of Birmingham, UK.
- Godfrey, J. C. (1992). Static mixer. *Mixing in the Process Industries*, 226-249.
- Horn, N. A., Meek, J. A., Budahazi, G., & Marquet, M. (1995). Cancer gene therapy using plasmid DNA: Purification of DNA for human clinical trials. *Human Gene Therapy*, 6, 565-573.
- Igou, D. K., Lo, J. T., Clark, D. S., Mattice, W. L., & Younathan, E. S. (1974). On the nature of interaction of dodecyl sulphate with proteins: Evidence from unchanged polypeptides. *Biochemistry and Biophysics Research Communication*, 6, 140-145.
- Lailinen, A., & Harris, S. (1975). *Chemical analysis*. Tokyo: McGraw-Hill Kogakusha.
- Levy, M. S., O'kenndy, R. D., Ayazi, S. P., & Dunnill, P. (2000). Biochemical engineering Approaches to the challenges of producing pure plasmid DNA. *Trend in Biotechnology*, 18, 296-304.

- Limon-Lason, J., Hoare, M., Orsborn, C. B., Doyle, D. J., & Dunnill, P. (1997). Reactor properties of a high-speed bead mill for microbial cell rupture. *Biotechnology and Bioengineering*, XXI, 745-774.
- Marquet, M., Horn N. A., & Meek, J. A. (1995). Process development of the manufacture of plasmid DNA vector for use in gene therapy. *BioPham, September*, 26-37.
- Monteiro, G. A., Ferreria, G. N. M., Cabral, J. M. S., & Prazeres, D. M. F. (1998). Analysis and use of endogenous activities in *E. coli* lysates during the primary isolation of plasmids for gene therapy. *Biotechnology and Bioengineering*, 66, 189-194.
- Mulligan, R. C. (1993). The basic science of gene therapy. *Science*, 260, 226-931.
- Nienow, A. W., Patel, H., Hitchcock, A. G., & Hanak, J. A. (1998). Cell lysis for the production of plasmid DNA for non-viral gene therapy. *Biotechnology News, The University of Birmingham*, 38, 20-21.
- Prazeres, D. M. F., Ferreira, G. N. M., Monterio, G. A., Cooney, C. L., & Cabral, J. M. S. (1999). Large-scale production of pharmaceutical-grade plasmid DNA for gene therapy: Problems and bottlenecks. *Trends in Biotechnology*, 17, 169-174.
- Qiagen, (1997). QIAGEN Plasmid Purification Handbook. *Boundary Court, West Sussex*.
- Sauer, T., Robinson, C. W., & Glick, B. R. (1988). Disruption of native and recombinant *E. coli* in a high-pressure homogeniser. *Biotechnology and Bioengineering*, 33, 1330-1342.
- Scragg, A. H. (1991). *Bioreactors in biotechnology: A practical approach*. Ellis Horwood: London, 302-315.
- Sofer, G., & Hogel, L. (1997). The purification strategy, Chromatography. In *Handbook of process chromatography*, Academic Press, London, 43-54, 132-172.
- Thakur, R. K., Vial, Ch., Nigam, K. D. P., Nauman, E. B., & Djelveh. (2003). Static mixer in the process industries-a review. *Institution of Chemical Engineers*, 787-826.
- Thatcher, D. R., Hitchcock, A. G., Hanak, J. A. J., & Varley, D. L. (2003). Method of plasmid DNA production and purification. *Internation Patent*, WO 97/29190.

Theodossiou, L., Collins, I. J., Thomas, O. R. T., & Dunnill, P. (1997). The processing of a plasmid based gene from *E. coli*: primary recovery by filtration. *Bioprocess Engineering*, 16, 175-183.

Theodossiou, L., Thomas, O. R. T., & Dunnill, P. (1999). Methods for enhancing the recovery of plasmid genes from neutralized cell lysate. *Bioprocess Engineering*, 20, 147-156.

Varley, D. L., Hitchcock, A. G., Weiss, A. M. E., Horller, W. A., Cowell, R., Peddie, L., Sharpe, G. S., Thatcher, D. R., & Hanak, J. A. J. (1999). Production of plasmid DNA for human gene therapy using modified alkaline cell lysis and expanded bed anion exchange chromatography. *Bioseparation*, 8, 209-217.

Vile, R. G. (1997). Gene therapy. *Current Biology*, 3(8), 173-175.

<http://www.mtec.or.th/th/labs/rheology/images/pdf>

<http://www.kochglitsch.com/frmain-mixers.htm>

<http://www.ingentaselect.com/titles/02638762.htm>

<http://www.chemineer.com>

<http://www.chemineer.com/Kenics-heat-exchangers.php>

<http://www.chemineer.com/kenics-km.php>

<http://www.BBERG.buu.ac.th>