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Horst Chmiel, Walter P. Hammes, James Edwin Bailey

Single-Use Technology in Biopharmaceutical Manufacture Regine Eibl, Dieter Eibl, 2011-08-08 This book gives an overview of commonly-used disposables in the manufacture of biopharmaceuticals, their working principles, characteristics, engineering aspects, economics, and applications. With this information, readers will be able to come to an easier decision for or against disposable alternatives and to choose the appropriate system. The book is divided into two parts – the first is related to basic knowledge about disposable equipment; and the second discusses applications through case studies that illustrate manufacturing, quality assurance, and environmental influence.

Drug Discovery from Nature S. Grabley, R. Thiericke, 1998-11-26 This book is unique in covering the present status and future potential of natural products in drug discovery. It provides readers with recent information regarding the impact on drug discovery, development and strategies, technical and automation aspects, and methods based on biochemistry as well as molecular biology, highlighting compounds from natural sources. Special emphasis is placed on the various strategies to gain access to natural compounds and combinatorial approaches by making use of both synthetic and biological methods.

Cells and Culture Thomas Noll, 2010-07-17 Regeneration of tissue to replace damaged or injured tissue is the goal of tissue engineering. Biomaterials like polyglycolic acid, collagen and small-intestinal submucosa provide a temporary scaffold to guide new tissue growth and organization. Typically, they need to be biodegradable, showing good cell attachment and proliferation and they should possess appropriate mechanical properties (Kim et al. , 2000). Synthetic polymers fulfill most of these requirements but lack cell-adhesion peptides on their surface to enhance cell attachment. Cell-adhesion peptides are present in ECM proteins like collagen and elastin. Thus a synthetic polymer coated with ECM proteins would result in a scaffold that mimics the natural cellular environment with enhanced cell attachment and proliferation. The new bioactive scaffold will be made by combining a synthetic polymer coated with a layer of recombinant ECM proteins produced by CHO cells. The first step consists of identifying polymers that give best results in terms of CHO cell attachment and growth. Classical techniques to determine biomass are inappropriate to evaluate 3-D structures. Thus a screening system based on stable GFP expressing CHO cells was used to compare the different scaffolds. Simple fluorescent measurement after cell lysis allows determining cell attachment and proliferation on synthetic polymers. Finally CHO cells producing human recombinant collagen I and elastin were generated. We showed that both proteins are expressed and secreted by CHO DG44 cells. 2

Materials and Methods 2.

Quality and Reliability of Large-Eddy Simulations II Maria Vittoria Salvetti, Bernard Geurts, Johan Meyers, Pierre Sagaut, 2010-11-03 The second Workshop on Quality and Reliability of Large-Eddy Simulations, QLES2009, was held at the University of Pisa from September 9 to September 11, 2009. Its predecessor, QLES2007, was organized in 2007 in Leuven (Belgium). The focus of QLES2009 was on issues related to predicting, assessing and assuring the quality of LES. The main goal of QLES2009 was to enhance the knowledge on error sources and on their interaction in LES and to devise criteria for the prediction and optimization of simulation quality, by bringing together mathematicians, physicists and engineers and providing a platform specifically addressing these aspects for LES. Contributions were made by leading experts in the field. The present book contains the written contributions to QLES2009 and is divided into three parts, which reflect the main topics addressed at the workshop: (i) SGS modeling and discretization errors; (ii) Assessment and reduction of computational errors; (iii) Mathematical analysis and foundation for SGS modeling.

Upstream Industrial Biotechnology, 2 Volume Set Michael C. Flickinger, 2013-07-22 Biotechnology represents a major area of research focus, and many universities are developing academic programs in the field. This guide to biomanufacturing contains carefully selected articles from Wiley's Encyclopedia of Industrial Biotechnology, Bioprocess, Bioseparation, and Cell Technology as well as new articles (80 in all,) and features the same breadth and quality of coverage and clarity of presentation found in the original. For instructors, advanced students, and those involved in regulatory compliance, this two-volume desk reference offers an accessible and comprehensive resource.

Microbial Reactions S. Aiba, H. W. Doelle, K. N. Ewings, L. T. Fan, M. M. Gharpuray, N. W. Hollywood, K. J. Lee, Y.-H. Lee, P. L. Rogers, M. L. Skotnicki, D. E. Tribe, 1982-07-01

Space and Terrestrial Biotechnology A. Cogoli, 1982

Reactors and Reactions Harvey W. Blanch, 1981

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1971 First multi-year cumulation covers six years: 1965-70.

Microbes and Engineering Aspects V. P. Gutschick, 1982

Mass Transfer with Chemical Reaction in Multiphase Systems: Three-phase systems Erdoğan Alper, 1983 The phenomenon of mass transfer with chemical reaction takes place whenever one phase is brought into contact with one or more other phases not in chemical equilibrium with it. This phenomenon has industrial, biological and physiological importance. In chemical process engineering, it is encountered in both separation processes and reaction engineering. In some cases, a chemical reaction may deliberately be employed for speeding up the rate of mass transfer and/or for increasing the capacity of the solvent; in other cases the multiphase reaction system is a part of the process with the specific aim of

product formation. Finally, in some cases, for instance distillation with chemical reaction, both objectives are involved. Although the subject is clearly a chemical engineering undertaking, it requires often a good understanding of other subjects, such as chemistry and fluid mechanics etc., leading to publications in diversified areas. On the other hand, the subject has always been a major field and one of the most fruitful for chemical engineers.

Annals of the New York Academy of Sciences New York Academy of Sciences, 1995 Records of meetings 1808-1916 in v. 11-27.

Preprints: Discussion papers, 1978

European Journal of Inorganic Chemistry, 2001

Biochemical Engineering Horst Chmiel, Walter P. Hammes, James Edwin Bailey, 1987

Directory of European Research and Development, 1997

Biological Chemistry Hoppe-Seyler, 1996

Applied Homogeneous Catalysis with Organometallic Compounds Boy Cornils, Wolfgang A. Herrmann, 2002-05-22

Homogeneous catalysis is the success story of organometallic chemistry. Since the discovery of hydroformylation by O. Roelen in 1938, catalytic applications have paved the way of organometallic compounds in industry. Bulk and fine chemicals, and even natural products are being produced via homogeneous organometallic catalysis. The enormous breadth of this topic in view of both basic research and industrial application is met in this three volume handbook edited jointly by W. A. Herrmann and B. Cornils. The list of contributors reads like a who-is-who in organometallic chemistry and homogeneous catalysis. In this handbook, experts will find the current state-of-the-art in their field and advanced students will benefit from the concise treatment of important catalytic reactions and processes. With its balanced presentation of the truly interdisciplinary topic and its outstanding editor- and authorship, the 'Cornils/Herrmann' is beyond common standards. Now in its second, completely revised and enlarged edition!

Geo 2008 Peter Kukla, 2008

Copernicus 1998 European Commission, 1999

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