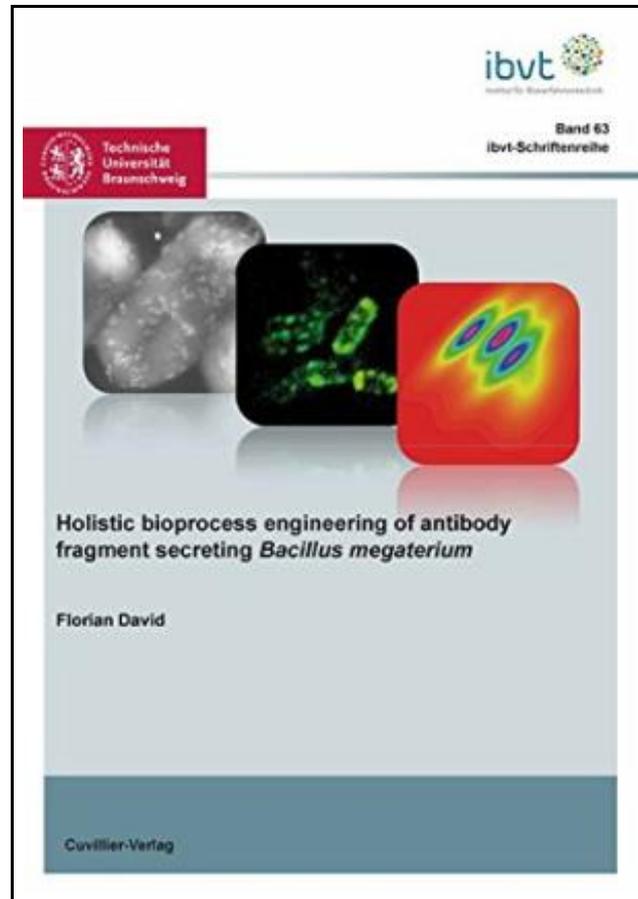


Holistic bioprocess engineering of antibody fragment secreting *Bacillus megaterium*



Filesize: 6.74 MB

Reviews

This ebook is great. Indeed, it can be enjoy, nonetheless an amazing and interesting literature. Your life span will be change as soon as you comprehensive reading this article book.

(Mr. Bo Fadel IV)

HOLISTIC BIOPROCESS ENGINEERING OF ANTIBODY FRAGMENT SECRETING BACILLUS MEGATERIUM

DOWNLOAD



Cuvillier Verlag Mai 2012, 2012. Taschenbuch. Book Condition: Neu. 211x149x15 mm. Neuware - Antibodies and antibody fragments are most important tools for therapeutic and diagnostic applications. An increasing demand of these high potential drugs makes less cost intensive production systems most desirable. Compared to mammalian cell culture microbial production platforms are beneficial with regards to reaching high production titers, scale up approaches, regulatory aspects and reduced costs of goods. Amongst these production systems those that are having the ability of an additional product secretion are most advantageous as the downstream processing costs are decisively reduced. In this work *Bacillus megaterium*, as a Gram positive model organism, was used to extensively study the production and secretion of the antibody fragment D.13 scFv. For the bioprocess optimization a holistic approach was followed. First the aim was to establish a high productive defined cultivation medium. Different media components like carbon sources, metal ions and ammonium concentrations were screened throughout various cultivation platforms ranging from micro titer plates to shaking flasks. Statistical design of experiments and a genetic algorithm approach were used to establish an appropriate defined high production medium. As a second step the process was transferred to the bioreactor scale of several liter cultivation volume. An optimal bioprocess strategy based on alternating growth and starvation phases was established to gain high product titers of antibody fragment D1.3 scFv. As a final step an up-scale to a 100 L bioreactor was done accounting for an advanced process control and considering good manufacturing practice guidelines. The advanced bioprocess monitoring tool of flow cytometry was used to gain deeper insights on microbial physiology at single cell level regarding cell viability, cell integrity and production intensity. This knowledge was used for a sophisticated cell physiology based bioprocess development and optimization. Furthermore culture heterogeneities were measured and...



[Read Holistic bioprocess engineering of antibody fragment secreting *Bacillus megaterium* Online](#)



[Download PDF Holistic bioprocess engineering of antibody fragment secreting *Bacillus megaterium*](#)

Other PDFs



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

[Download PDF »](#)



Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

[Download PDF »](#)



DK Readers Day at Greenhill Farm Level 1 Beginning to Read

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.8in. x 5.7in. x 0.2in. This Level 1 book is appropriate for children who are just beginning to read. When the rooster crows, Greenhill Farm springs...

[Download PDF »](#)



The Java Tutorial (3rd Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book...

[Download PDF »](#)



Adobe Indesign CS/Cs2 Breakthroughs

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and...

[Download PDF »](#)



Kingfisher Readers: What Animals Eat (Level 2: Beginning to Read Alone) (Unabridged)

Pan Macmillan. Paperback. Book Condition: new. BRAND NEW, Kingfisher Readers: What Animals Eat (Level 2: Beginning to Read Alone) (Unabridged), Brenda Stone, For the first time, Kingfisher brings its expertise in beautifully-designed, trusted non-fiction to

[Read ePub »](#)



THE Key to My Children Series: Evan s Eyebrows Say Yes (Paperback)

AUTHORHOUSE, United States, 2006. Paperback. Book Condition: New. 274 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.THE KEY TO MY CHILDREN SERIES: EVAN S EYEBROWS SAY YES is about

[Read ePub »](#)



Fox at School: Level 3 (Paperback)

Penguin Young Readers Group, United States, 1993. Paperback. Book Condition: New. James Marshall (illustrator). Reissue. 224 x 147 mm. Language: English . Brand New Book. Using their cache of already published easy-to-read books, Puffin launched

[Read ePub »](#)



Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers (Paperback)

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download

[Read ePub »](#)



DK Readers Invaders From Outer Space Level 3 Reading Alone

DK CHILDREN. Paperback. Book Condition: New. Paperback. 48 pages. Dimensions: 8.9in. x 5.9in. x 0.1in.Are aliens from other planets visiting Earth Read these amazing stories of alien encounters-- and make up your own mind!

[Read ePub »](#)