im One

INTERNATIONAL BioPharm

OCTOBER 2009

BioPharm International

OCTOBER

Manufacturing

Economic:

Approval

Irends

The Science & Business of Biopharmaceuticals

www.biopharminternational.com

MANUFACTURING ECONOMICS Implementing Toyota's LEAN Systems in **Bioprocessing**

A step-by-step approach is essential for successful implementation

AUTOMATION A New Technique to Solve Capacity and **Quality Concerns**

Automated in-line dilution can produce highly accurate solution concentrations

PRODUCT APPROVALS Biopharmaceutical Approval Trends

60% of the products approved in 2008 were expressed in E. coli

FROM THE EDITOR

What healthcare reform will mean for the pharma industry

REGULATORY BEAT

FDA leaders promise stiffer enforcement of quality standards

OUTSOURCING INSIGHTS

Are we on the verge of a major consolidation of CMOs?

BURRILL ON BIOTECH

Biotech builds momentum, but will recent market gains translate into financing?

AN ADVANSTAR DUBLICATION

Volume 22 Number 10



FINAL WORD: Big Effects from Small Changes 82