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Series Editor: *John M. Walker*

# Downstream Processing of Proteins

## *Methods and Protocols*

*Edited by*

**Mohamed A. Desai**

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In *Downstream Processing of Proteins: Methods and Protocols,* Mohamed A. Desai and a team of experienced biotechnologists review both conventional and novel isolation techniques used in industrial applications for the downstream processing of protein molecules. These techniques include primary and secondary separations during the isolation of biomolecules, as well as unique laboratory-scale research methods with a potential for scale-up. Also treated are the various strands of the downstream biological process essential for a successful product license application, including both the validation of DSP stages, and the design and validation of viral clearance stages during the purification process.

*Downstream Processing of Proteins: Methods and Protocols* provides scientists everywhere, but particularly in the biopharmaceutical and biotechnology industries, with a much-needed introduction to this critical technology. Every bioprocess scientist and engineer working to design and validate biological processes for novel proteins—and successfully apply for their new product licenses—will find this important book an eminently practical resource.

## Features

- **Provides a basic understanding of common downstream processing techniques**
- **Presents protein purification from an industrial perspective**
- **Explores the use and validation of DSP stages in a typical biopharmaceutical process**
- **Addresses the most common issues of process validation in industry**

## Contents



ISBN 0-89603-564-6

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Methods in Biotechnology™ ■ 9

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ISBN: 0-89603-564-6