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Nota di contenuto	Practical Methods for Biocatalysis and Biotransformations 3; Contents; List of Contributors; Abbreviations; Chapter 1: Considerations for the Application of Process Technologies in Laboratory- and Pilot-Scale Biocatalysis for Chemical Synthesis; 1.1 Introduction; 1.2 Process Intensification and Proposed Scale-Up Concept; 1.3 Enabling Technologies; 1.3.1 Biocatalyst Immobilization; 1.3.1.1 General Considerations for Implementation; 1.3.1.2 Carrier-Bound Supported Enzymes; 1.3.1.2.1 Adsorption; Considerations for Implementation; 1.3.1.2.2 Covalent Binding; Considerations for Implementation 1.3.1.2.3 Ionic Binding Considerations for Implementation; 1.3.1.3 Carrier-Free Immobilization; 1.3.1.3.1 Cross-Linked Enzyme Aggregates (CLEAs™); Considerations for Implementation; 1.3.2 Reactor Options; 1.3.2.1 Ideal Reactors; 1.3.2.2 Modes of Operation; 1.3.2.3 Well-Mixed Reactor Hydrodynamics; 1.3.2.3.1 Stirred Tanks;

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1.4.4.1.1 Considerations for Implementation
1.4.4.2 Sparged Aeration; 1.4.4.2.1 Considerations for Implementation; 1.4.4.3 Bubble-Column Reactors; 1.4.4.3.1 Considerations for Implementation; 1.5 Conclusion; References; Chapter 2: Cytochrome P450 (CYP) Progress in Biocatalysis for Synthetic Organic Chemistry; 2.1 Introduction; 2.2 CYP Development; 2.3 Recent Developments; 2.4 Conclusion; References; Chapter 3: Use of Hydrolases and Related Enzymes for Synthesis; 3.1 Continuous-Flow Reactor-Based Enzymatic Synthesis of Phosphorylated Compounds on a Large Scale; 3.1.1 Materials and Equipment
3.1.2 Immobilization of Acid Phosphatase on Immobeads

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