
Contents

Production of Glutamate and Glutamate-Related Amino Acids; Molecular Mechanism Analysis and Metabolic Engineering H. Shimizu • T. Hirasawa	• 1
The L-Lysine Story: From Metabolic Pathways to Industrial Production C. Wittmann • J. Becker	39
L-Threonine M. Rieping • T. Hermann	71
Aromatic Amino Acids G. A. Sprenger	93
Branched-Chain Amino Acids M. Pátek	129
Methionine Biosynthesis in <i>Escherichia coli</i> and <i>Corynebacterium glutamicum</i> R.M. Figge	163
Cysteine Metabolism and Its Regulation in Bacteria E. Guédon • I. Martin-Verstraete	195
Microbial Arginine Biosynthesis: Pathway, Regulation and Industrial Production N. Glansdorff • Y. Xu	219
L-Serine and Glycine L. Eggeling	259
Alanine, Aspartate, and Asparagine Metabolism in Microorganisms T. Oikawa	273

Amino Acid Transport Systems in Biotechnologically Relevant Bacteria K. Marin • R. Krämer	289
Occurrence, Biosynthesis, and Biotechnological Production of Dipeptides S. Hashimoto	327
Genomes and Genome-Level Engineering of Amino Acid-Producing Bacteria H. Yukawa • M. Inui • A. A. Vertès	349
Subject Index	403

PPN: 265180732

Titel: Amino acid biosynthesis - pathways, regulation and metabolic engineering / ed.: Volker F. Wendisch. - Berlin : Springer, 2007

ISBN: 978-3-540-48595-7EUR 181.85 (freier Pr.), sfr 278.50 (freier Pr.); 3-540-48595-3EUR 181.85 (freier Pr.), sfr 278.50 (freier Pr.)

Bibliographischer Datensatz im SWB-Verbund