



METABOLIC ENGINEERING AND BIOPROCESS

COST PRESSURES, PRODUCTION DEMAND, COMPETITION AND REGULATORY REQUIREMENTS PRESENT SUBSTANTIAL CHALLENGES IN METABOLIC ENGINEERING AND BIOPROCESS. THERE IS A CRITICAL NEED FOR NEW APPROACHES, TOOLS, TECHNOLOGIES, AND INSIGHTS TO SUPPORT THESE DEMANDS.

Fermentation Development and Process Improvement with Metabolomics

Metabolomics, or comprehensive biochemical profiling, creates a snapshot of all biochemicals present in a sample by identifying, quantifying, tracking and mapping each metabolite present in the system. Metabolomics provides unique biological insight that can improve results while reducing costs.

Bioprocess Applications

Mechanistic understanding of a system and biomarkers for:

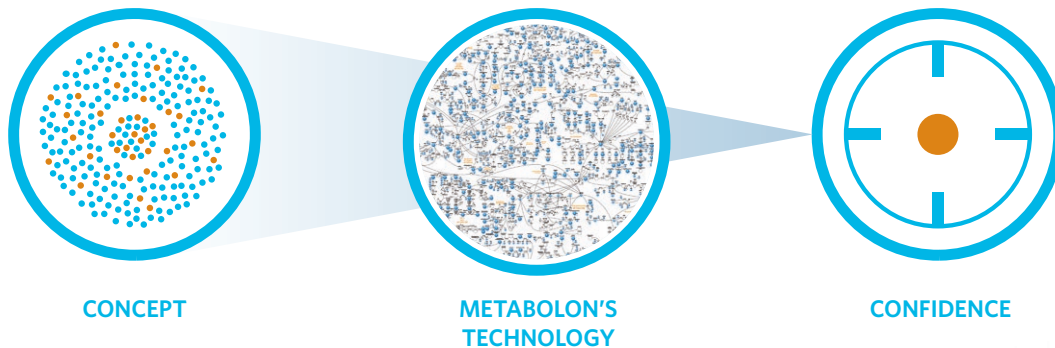
- Strain design and selection
- Process & Media Development
- Scale up and transfer
- Process and product quality
- Raw material profiling
- Integration into DOE
- Trouble Shooting
- Continuous Optimization Programs

Analyze and optimize:

- Synthetic efficiency and production
- Pathway tendencies and rate limiting biochemistries
- Carbon flow
- Viability, stress and toxicities
- Cell physiology
- Nutrient dynamics

FOR A COMPLETE LIST OF OUR METABOLOMICS SERVICES, VISIT WWW.METABOLON.COM

METABOLON'S PROCESS: FROM CONCEPT TO CONFIDENCE



YOUR PARTNER IN METABOLOMICS.

METABOLON IS A LEADER IN BIOPROCESS METABOLOMICS, HAVING PERFORMED HUNDREDS OF BIOPROCESSING STUDIES. SINCE OUR FOUNDING IN 2000, WE HAVE INVESTED HEAVILY IN CREATING THE INNOVATIVE, INDUSTRY-LEADING DISCOVERY METABOLOMICS TECHNOLOGY THAT PROVIDES UNPARALLELED COVERAGE DEPTH AND DATA QUALITY.

Metabolon provides rapid, accurate metabolite identification and quantification across nearly every metabolite class, including complex lipids.

From our initial consultation to the delivery of results, the entire process of working with Metabolon is designed to empower informed decision making so you can move forward with confidence.

Supported Sample Types:

Metabolon has developed robust methodologies for most expression hosts, including:

- mammalian
- bacterial
- yeast
- algae
- plant
- insect
- fungi

The Metabolon Advantage:

Metabolon has developed robust methodologies for most expression hosts, including:

- Coverage Depth
 - biochemical library of >14000 metabolites*
- Quality (CVs, accurate IDs)
 - Median RSD of <5%
- Institutional Knowledge
- 15 years of experience
- More than 700 clients
- 500+ publications
- Speed & Capacity

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