

INSA | INSTITUT NATIONAL
DES SCIENCES
APPLIQUÉES
TOULOUSE

CRITT Bio-Industries

SUPPORTING YOUR INNOVATION
AND INDUSTRIAL DEVELOPMENT



CRITT
BIO INDUSTRIES

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BIO INDUSTRIES

AN R&D PARTNER OF CHOICE FOR INDUSTRIAL BIOTECHNOLOGY

Expert in industrial biotechnologies and separative techniques, since 1989, the CRITT Bio-Industries supports companies in their research projects and development projects, from proof-of-concept to industrial scale projects.

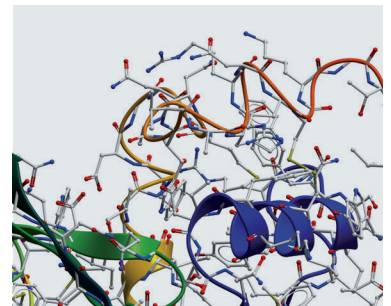
A THRIVING ECOSYSTEM FOSTERING INNOVATION

- Scientific and technological synergies with Toulouse Biotechnology Institute (TBI) and Toulouse White Biotechnology (TWB)
- 15,000 m² dedicated to industrial biotechnologies
- Continuum of scales from fundamental research to pre-industrial development

OUR EXPERTISE FOR INDUSTRIAL DEVELOPMENT



Processing microorganisms (bacteria, yeast, fungi, microalgae, etc.) in solid or liquid media



Production and optimization of free or immobilized enzymes



Definition of separation and purification unit operations applied to industrial biotechnologies

FERMENTATION

Innovation

DSP

SCALE UP

EXPERTISE

MICRO-ORGANISMES

INDUSTRIAL BIOTECHNOLOGIES

Purification

BIOCATALYSIS

ENZYMES

DEVELOPMENT



A WIDE RANGE OF SERVICES TO SUPPORT INNOVATION

- Proof of concept
- Process development
- Scale-up
- Industrial pre-sizing
- Writing process books
- Demonstration batches
- Consulting, Training, expertise

CONTRACTUAL FLEXIBILITY :

- Sub-contracting services,
- Research services,
- Collaborative projects

OUR EQUIPMENTS



LIQUID & SOLID FERMENTATION :

- Liquid bioreactor from 5 to 300 L
- Solid bioreactors from 2 L to 30 L



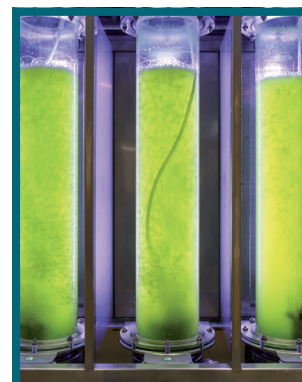
ENZYMATIC CATALYSIS :

- Reactor from a few mL to 750 L
- Reactors for immobilized enzymes from a few mL to 45 L



DOWNSTREAM PROCESSING UP TO 500L :

- Solid/Liquid Separation
- Tangential Filtration
- Chromatography
- Electro dialysis



SPECIFIC EQUIPMENTS :

- Air-lift reactors
- Dispersion and mixing
- Photobioreactors
- Analytical tools

FIELD OF APPLICATION



AGRICULTURE



HEALTH



MATERIALS



AGRI-FOOD



ENERGY



CHEMISTRY



COSMETICS



ENVIRONMENT

LRQA
CERTIFIED
ISO 9001

CRITT
BIO INDUSTRIES

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