



LFB BIOMANUFACTURING, YOUR PRIVILEGED CDMO PARTNER.

Global solutions, from development
to commercial manufacturing
of monoclonal antibodies and
recombinant proteins.



**MORE THAN
25 YEARS OF
EXPERIENCE IN
THE FIELD OF
MONOCLONAL
ANTIBODIES AND
RECOMBINANT
PROTEINS**



LFB BIOMANUFACTURING is a CDMO based in Alès (south of France) offering

Bioproduction services :

- **Cell line and process development**
- **Analytical services**
- **Scale up and GMP manufacturing**



**State of the art equipment
and flexible facility (Single Use
technologies) with a high level
pharmaceutical regulatory status.**

ANSM and
FDA approved

COMPREHENSIVE SERVICES OFFERING

DISCOVERY



CELL LINE DEVELOPMENT

- CHO-S and glycosylation pattern enhancement (EMABling® platform)
- Expression vector construction
- Monoclonal antibodies chimerization / humanization
- Vector transfection and transient expression
- Cell line characterization and comparability
- Stable cell line generation and cloning

PRE-CLINICAL DEVELOPMENT



PROCESS DEVELOPMENT AND SCALE-UP

- Cell culture process development
- Media optimization / yield improvement
- Downstream process development
- Scale down model for Upstream and Downstream process
- Quality by design (QbD) approach and critical parameters definition
- Analytical methods development
- Manufacturing of non-GMP batches up to 250L

CLINICAL DEVELOPMENT



MANUFACTURING OF CLINICAL AND COMMERCIAL BATCHES

- GMP master / working cell bank preparation and secured storage (2 sites)
- Manufacturing of GMP batches up to 1,000L (possibility to extend to 6 x 2,000L)
- Analytical methods transfer and validation
- Quality control drug substance, drug product, in process control, raw materials testing
- Stability studies for drug substance and drug product
- Process characterization and validation
- Regulatory support

REGISTRATION

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ESCAPE³⁰ OUR NEW DEVELOPMENT STRATEGY



LFB BIOMANUFACTURING targets Excellence in Services as CDMO for monoclonal Antibodies and therapeutic Proteins in Europe by 2030; this will contribute to the national sovereignty in the field.

SERVICE | INNOVATION | IMPACT**Deliver value**

2023 - 2025

- Execution edge
- Strategic site investments
- Business development acceleration

Strengthen position

2025 - 2028

- Customer portfolio excellence
- New product introductions
- Strategic short-term partnerships

Expand service

2028 - 2030

- One-stop shop rearchitecture
- Additional therapeutic modalities
- Strategic long-term partnerships

Vision:
Top decile
CDMO
Services

LFB BIOMANUFACTURING
building momentum

ANALYTICAL SERVICES



Our labs support development, technical transfer, optimization and validation of analytical methods as well as stability studies for clinical and commercial products.

PILOT FACILITIES

- Mammalian cell line development
- Analytical method development
- Shake flask and Ambr™ systems
- 25L Wave system
- 50L & 200L Single Use Bioreactors
- Downstream process equipment (chromatography, ultrafiltration/diafiltration, nanofiltration)

GMP MANUFACTURING

- Production Unit 1 for early stage clinical manufacturing with - up to 1,000L single use bioreactor
- Production Unit 2 for late stage clinical and commercial manufacturing with evolutive capacity up to 6 x 2,000L
- Production Unit 3 dedicated to unconventional projects
- Industrial clarification/UF-DF/nanofiltration and chromatography systems

LFB BIOMANUFACTURING

Impasse des Chênes Rouges / 30319 Alès Cedex - France



A biopharmaceutical
group **committed** to life





www.lfbbiomanufacturing.com