

microBiomufacturing™

GMP manufacturing of biologics: small scale, single use, and flexible

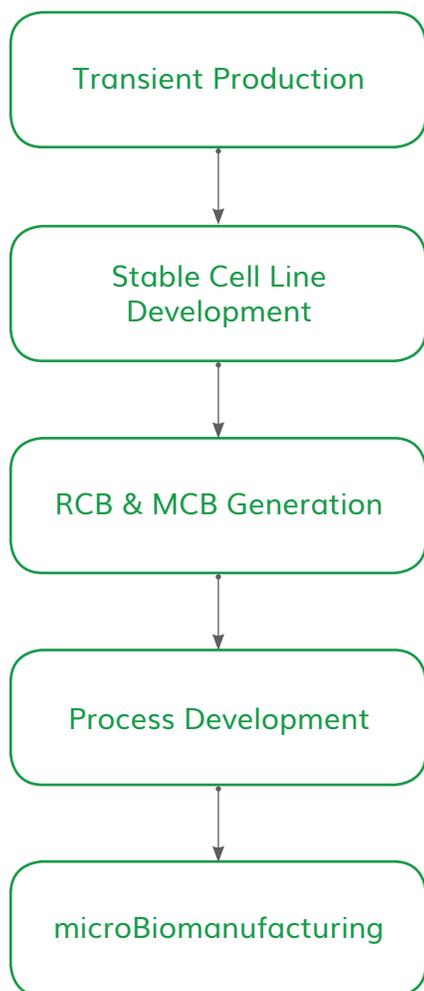
The word “microBiomufacturing” refers to small-scale GMP production ranging from 1 gram to 1 kilogram batch size. Single-use technologies are employed to minimize potential cross-contaminations.

Because the production scale is small, microBiomufacturing approaches are fast, flexible, and typically have a shorter queue time.

The microBiomufacturing way is a part of LakePharma’s Integrated Solutions for biologics development. By bridging the gap between development and late-stage manufacturing, microBiomufacturing approaches enable:

- Rapid advancement of biologic candidates from process development to clinical supply
- Proof-of-concept testing
- Commercial production of certain niche products
- Accessibility to GMP production for small biotech companies or start-ups

Proprietary CHO Technology from Transient Production to Manufacturing



LakePharma's TunaCHO™ transient production system offers:

- High productivity - can reach 2 g/L
- Consistent and scalable performance

LakePharma's CHO-GSN™ parental lines, proprietary expression vectors, and expertise result in final cell lines that feature:

- Robust performance with titer as high as 7 g/L
- High tolerance for shear

LakePharma offers a wide range of capabilities from research cell bank (RCB) development to master cell bank (MCB) generation.

LakePharma provides comprehensive upstream, downstream, formulation, and bioassay development as well as seamless tech transfer to GMP manufacturing.

LakePharma's capabilities include:

- GMP manufacturing from 1 gram to 1 kilogram batch size
- Plasmid DNA and mammalian protein production
- Hopkinton, MA and Hayward, CA

The future of biologics manufacturing is here. Take the next step with us.



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