

## Redefining Your Speed from IND to BLA



Comprehensive, High-quality,  
Late-stage Services

- Extensive experience & expertise
- Unparalleled capacities & resources
- One-stop highly-vetted development platform

Scan the QR code  
to learn more:



# Expediting your path to BLA

WuXi Biologics provides one-stop, high-quality late-phase development and manufacturing services for companies looking to bring biologics and vaccines to the market. We have streamlined our highly-vetted development platforms to accelerate your product through all aspects of late phase process, assay and formulation development, optimization, characterization and validation. We also provide the necessary GMP manufacturing capacities through our extensive global drug substance and drug product supply network. Whether you are developing products from mammalian cell culture, microbial fermentation or via in vitro methodologies (e.g., for RNA-based vaccines), let our experienced teams help you meet your critical BLA filing milestones.

## Our Experience and Track Record:

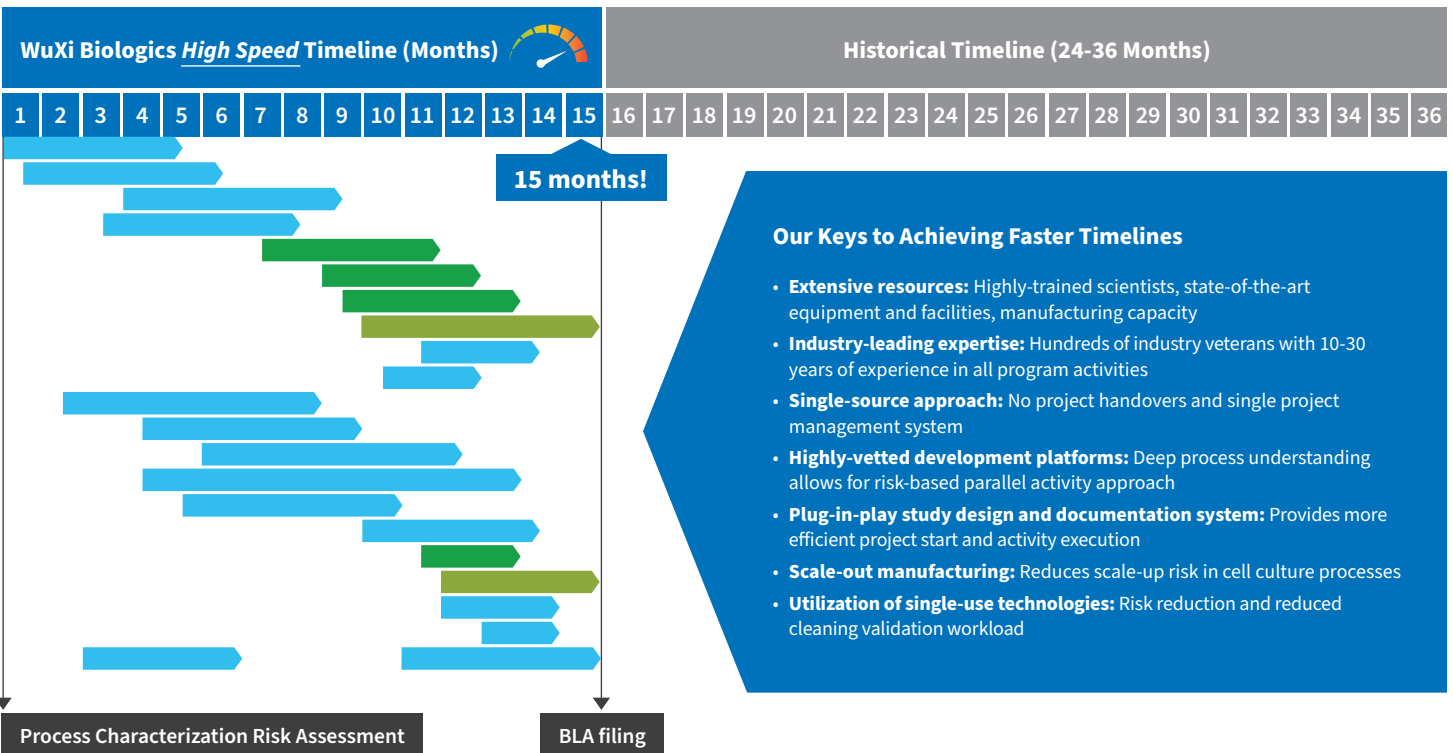
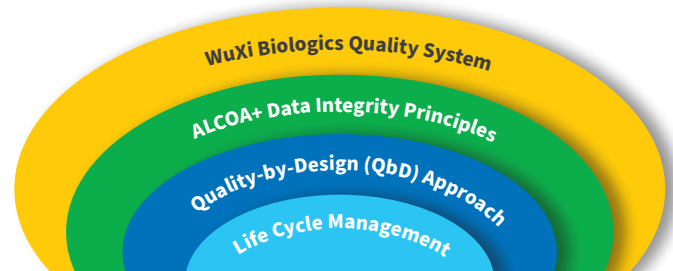
**132** Ongoing Late-stage (Phase II / III) Programs

**65** Licenses Approval from Global Regulatory Agencies (FDA / EMA / NMPA / Others)

**24** Commercial Manufacturing Programs

## Essential Program Activities

We utilize life cycle management and Quality-by-Design principles as outlined by the ICH guidelines as the fundamental backbone to all our process development (PD), process characterization (PC) and process validation (PV) activities and couple that with ALCOA+ data integrity principles to provide you the highest quality late-phase development program.



## Critical Process Characterization Elements

WuXi Biologics late-stage development program adheres to rigorous scientific standards and a highly-detailed methodology in order to meet the eventual regulatory scrutiny upon BLA filing.

Optimize late phase process

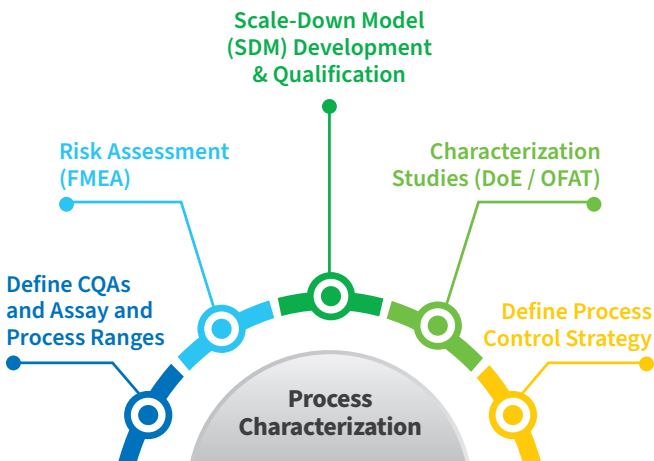
Tech transfer to commercial facility

Perform initial Failure Mode and Effects Analysis (FMEA)

Define presumptive CQAs

Build scale down model and PC

Conduct final FMEA, Control strategy, CQA Confirmation before PPQ preparation



## Comprehensive In-house Capabilities

Our one-stop approach includes a myriad of specialized capabilities that include:

Cell bank characterization on working (WCB) and end of production (EOPC) banks

Method validation and process/product related impurities characterization

In-house project specific HCP assay and reagent generation

Cell-based bioassay development and validation

Upstream and downstream process optimization and characterization

Viral clearance validation

Mixing study

Cleaning validation

Microbial hold study

Formulation development and optimization

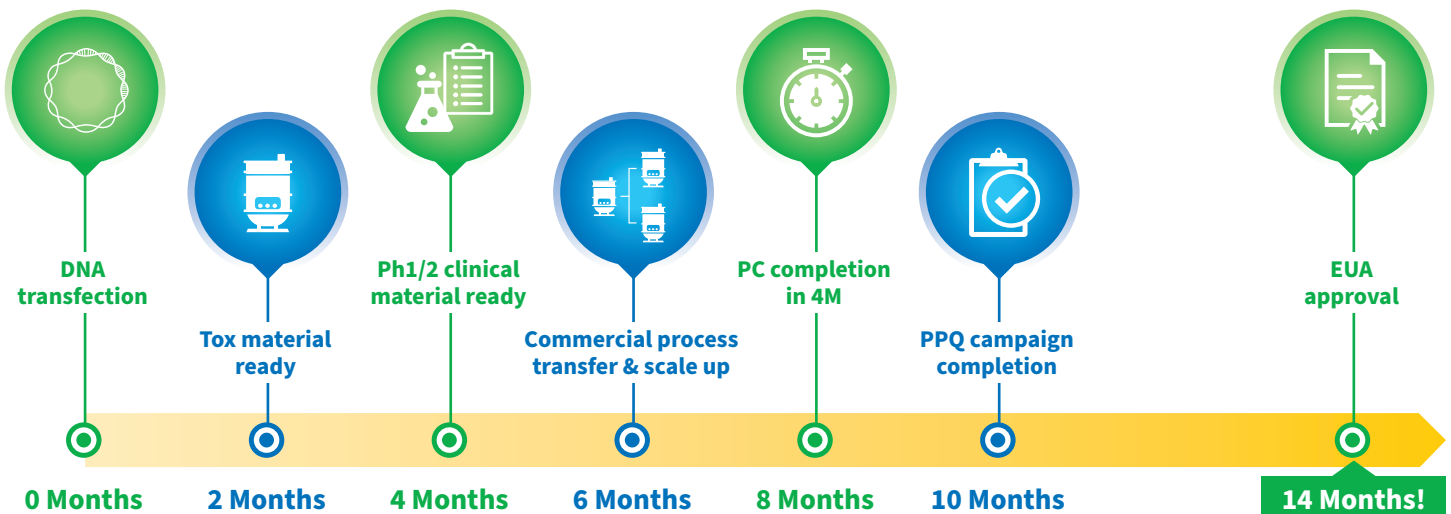
Container and closure systems (CCS) development and validation

Extractable and leachable assessment

Simulated shipping studies and shipping validation

## COVID-19 Rapid Response

Our extensive resources, expertise and risk-based approach led to an unprecedented expedited timeline from DNA to EUA for a client's late-stage COVID-19 program.



# Process Qualification

All critical aspects for PPQ readiness utilizing our extensive in-house qualification and validation programs enable a right-first-time approach including our comprehensive raw materials control system that has passed 30 global regulatory agency audits.



To provide you with a global supply network, WuXi Biologics operates multiple state-of-the-art, premier quality cGMP drug substance (DS) and drug product (DP) facilities across five countries. With 14 DS facilities worldwide, our GMP drug substance manufacturing capacity is over 280,000 L and growing to over 580,000 L across five countries after 2026. We currently maintain 9 drug product facilities capable of conducting liquid or lyophilized fills at varying clinical and commercial scales and utilizing a variety of container and closure system (CCS) configurations that include vials, prefilled syringes and other combination product CCS.

All of our manufacturing operations are overseen by our comprehensive global Quality System that has been audited by multiple regulatory agencies including the FDA, EMA, NMPA, PMDA, MFDS, HSA, ANIVSA, HPRA and Health Canada.



## About WuXi Biologics

WuXi Biologics is a leading contract research, development, and manufacturing organization (CRDMO) that provides end-to-end capabilities to healthcare organizations worldwide. With operations in China, the United States, Ireland, Germany, and Singapore, we enable our partners to effectively and efficiently bring biologics and vaccines to patients worldwide through our comprehensive and high-quality drug development model.

The world's leading global single-source platform from concept to commercialization.

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**WuXi Biologics**  
Global Solution Provider

