

**Vision.  
Expertise.  
Success.**

# Biologics: Development & Drug Substance Manufacturing

When selecting AbbVie, you gain more than a contract manufacturer. We are your pharmaceutical partner, focused on helping mitigate risk and accelerating your drug development timeline. Our site in Worcester, MA represents AbbVie's Biologics center of excellence, and one of the few sites that successfully manages drug complexities from development to commercial launch, and from antibody to ADC conjugation with one unified quality system and scientific team. We offer a simplified and dependable supply chain and better project continuity to give you greater confidence in the success of your biopharmaceutical program.

**Commercial Success:** 5 programs launched globally

**Scientific Excellence:** Clinical development for 70 projects in almost 40 years

**Biologics Expertise:** mAb, Fusion, Bi-Specific and ADC Conjugation expertise for DS & DP

**Partnering Commitment:** Consistent 3<sup>rd</sup> party focus and growth through facility investment

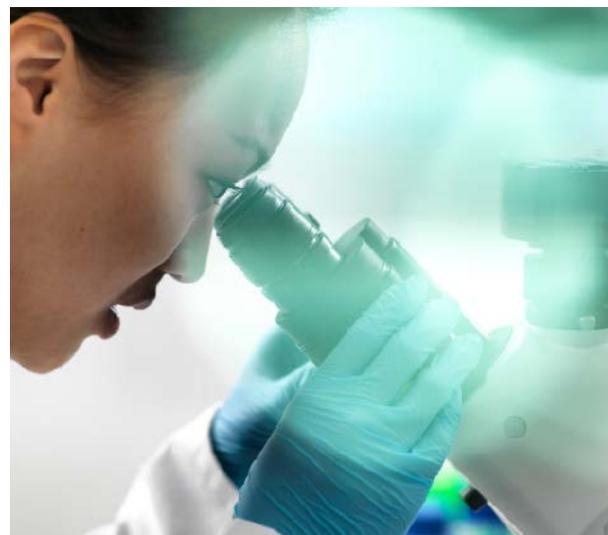
## Development Manufacturing

- Cell bank development (MCB/WCB)
- Upstream and downstream process development
- Analytical method development
- Extended product characterization
- Viral clearance studies

**Process scale-up labs** feature single-use and stainless technologies, with scales ranging from 3L–500L

## Commercial Manufacturing

- 38,000L of total capacity in the AbbVie Bioresearch Center in Worcester, MA
- Single use and fixed stainless-steel equipment in six manufacturing suite (1,000L to 6,000L)
- Each cell culture suite possesses dedicated DS purification
- Experienced process characterization and validation
- Second North American site for future commercial supply options (6,000L to 12,000L scale)



## Contract Manufacturing

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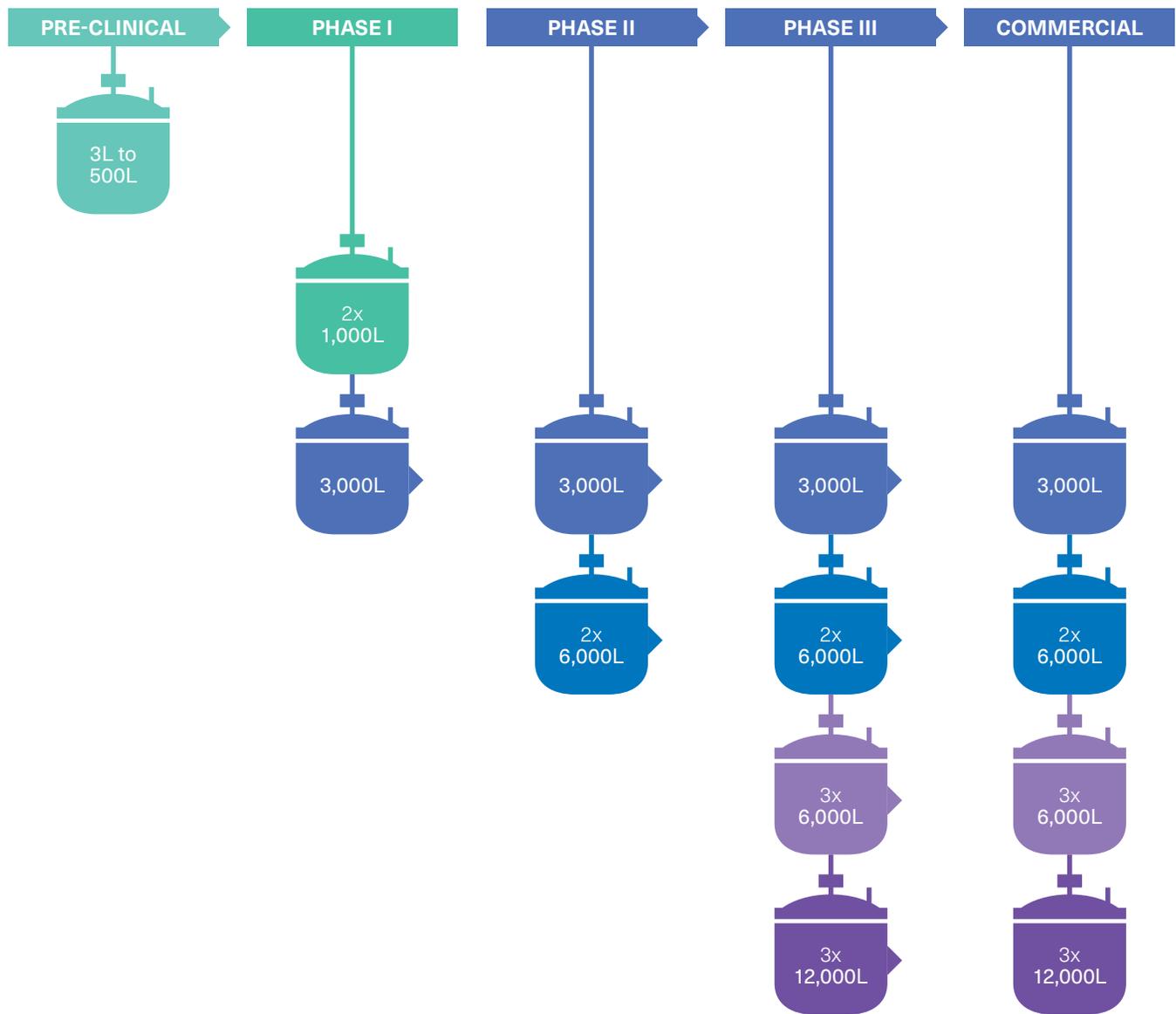
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Manufacturing  
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**Client Services**

- Comprehensive clinical & commercial pharma support
- Global regulatory filing, approval and launch expertise
- Dedicated pharmaceutical planning and project management
- Capacity and scale options to accommodate multiple partner programs
- Dedicated capacity options with flexible contracting for strategic partners
- Exceptional track record of scale-up milestone achievement, BLA and ongoing supply
- History of facility expansion for internal and external commercial requirements



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