Unlock the Optimal Pairings of Bispecific Antibodies and Efficient Scale-Up Strategies

Protein Sciences





Leading Global Biologics CRDMO





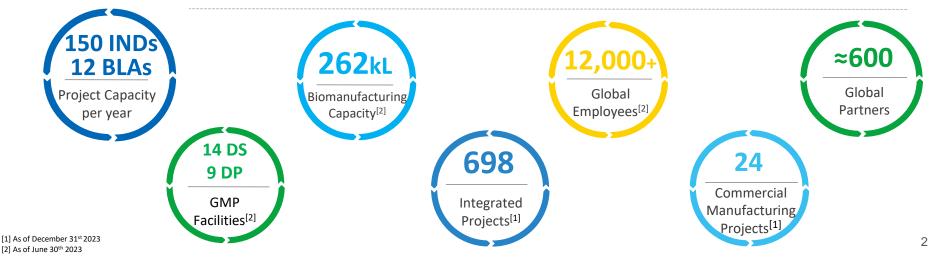
Vision: "Every drug can be made and every disease can be treated" by building an open-access platform with the most comprehensive capabilities and technologies in the global biologics industry

Mission: To accelerate and transform the discovery, development and manufacturing of biologics through a comprehensive open-access platform, enabling our global healthcare partners and benefiting patients worldwide

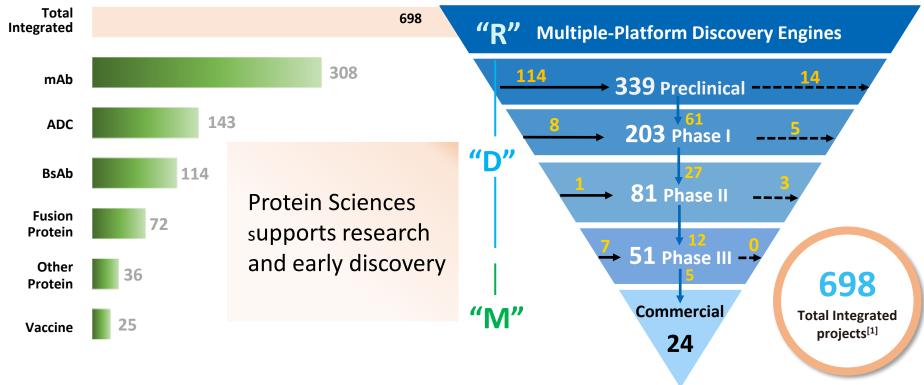
Business Model: Dedicated CRDMO with "Follow and Win the Molecule" strategy to discover, develop, and manufacture biologics FOR CLIENTS ONLY

Commercial Manufacturing Strategy: Global Dual Sourcing within WuXi Biologics

World-class Quality System certified by 13 regulatory agencies (e.g. U.S. FDA, EMA, China NMPA, Japan PMDA) Robust and premier-quality global supply chain network in China, Ireland, the U.S., Germany, and Singapore



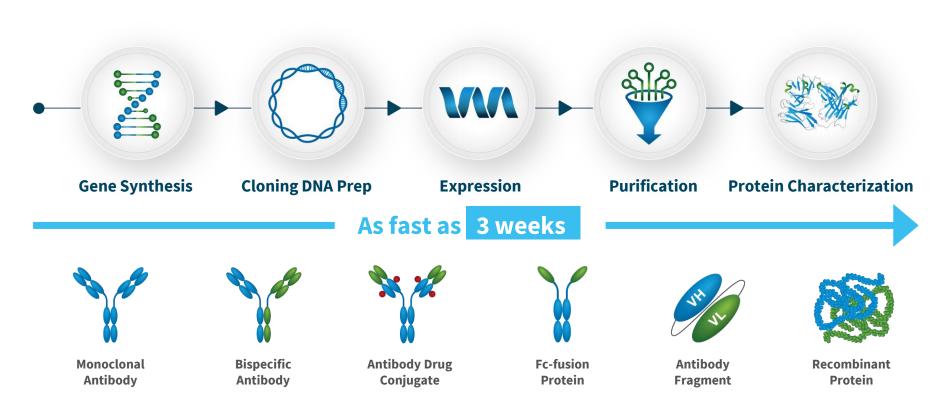




* Bispecific Antibody (BsAb) Included both WuXiBody® projects and non-WuXiBody ® projects

[1] As of December 31, 2023. [2] The commercial manufacturing projects refer to the projects approved by regulatory authorities and signed CMO contracts with the Group

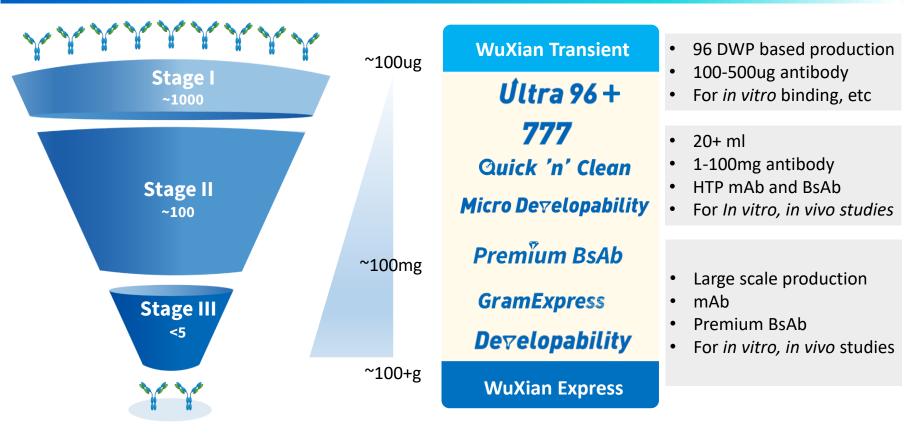
Drug Development Expertise, Protein Generation Excellence



WuXi Biologics

Global Solution Provider

Comprehensive Services for Antibody Drug Development



Development

WuXi Biologics



CONTENTS



Premium BsAb Production

- Optimization of Chain Ratio
- Optimization of Purification



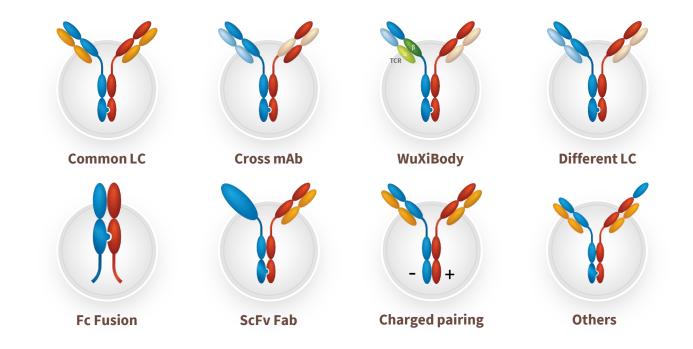
Quick 'n' Clean: HTP BsAb Production for Screening at the Early Stage

- Introduction to Quick 'n' Clean
- Case studies

Premium BsAb 01

Premium BsAb - LC-MS Assisted BsAb Production

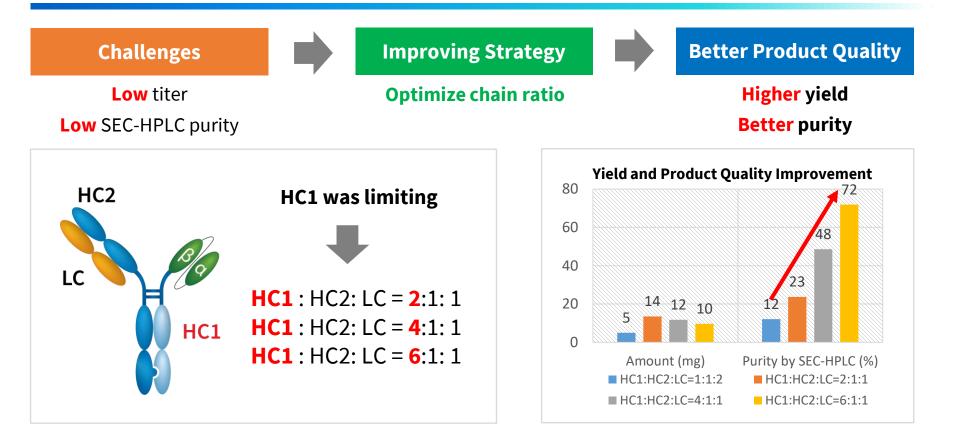




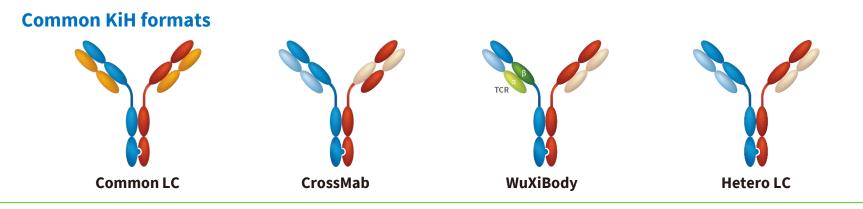
- 10mg to grams BsAb in 4-6 weeks
- All premium BsAbs are verified by intact mass
- 3000+ premium BsAb delivered successfully

Case Study 1: Chain Ratio Optimization

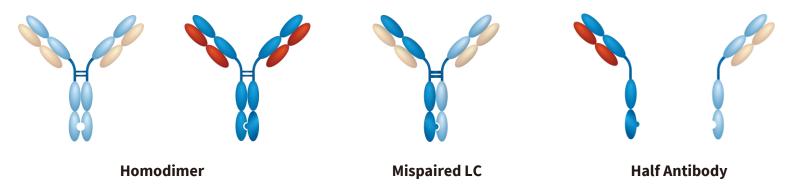








Main byproducts of KiH formats:

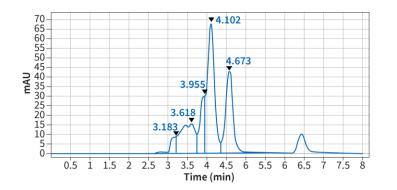


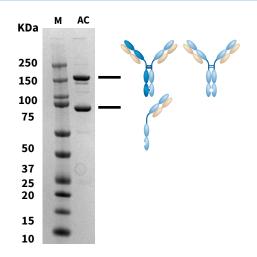
Case Study 1: Common LC BsAb





Post ProA Quality:

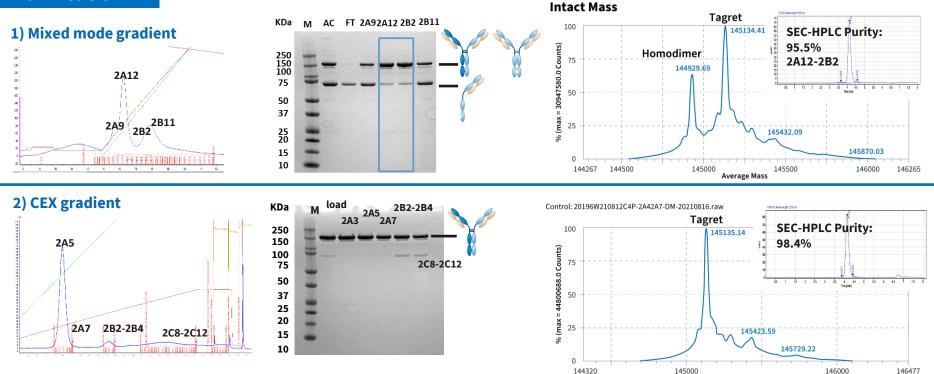




Case Study 1: Mixed Mode + CEX

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Purification

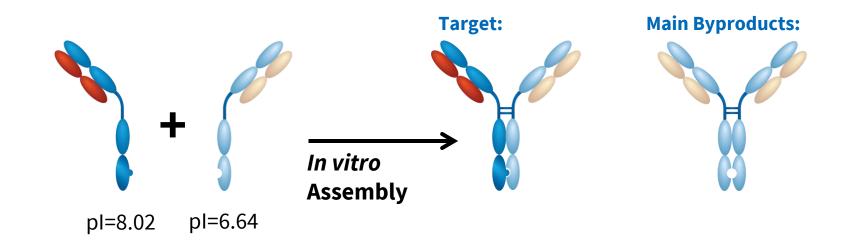


Mixed mode + CEX could remove half antibody and homodimer.

Average Mass

Case Study 2: Two Different LCs in KiH BsAb



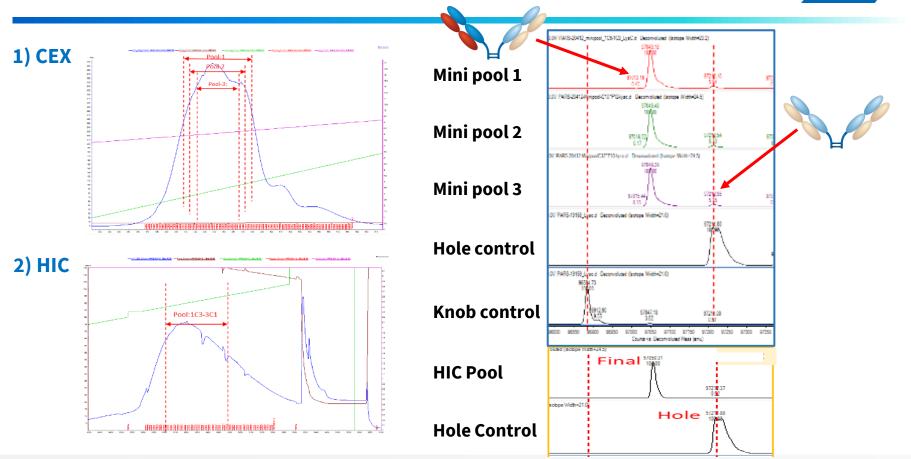


BsAb Analytics TIP:

Use enzyme to turn IgG to (Fab')2 for better separation of homodimer and heterodimer in LC-MS



Case Study 2: Two Different LCs in KiH BsAb



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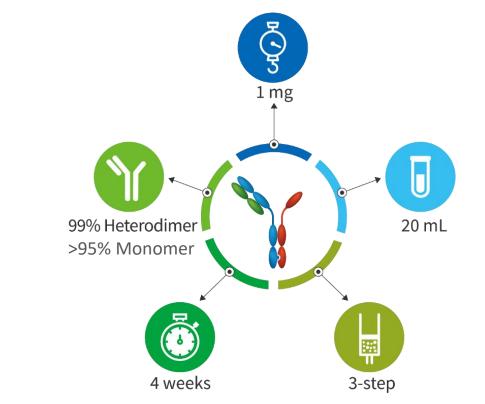
Quick 'n' Clean 02 Customized HTP BsAb Production

Quick 'n' Clean - Unlock the Optimal Pairings of BsAb

Automated **3** -

step Purification

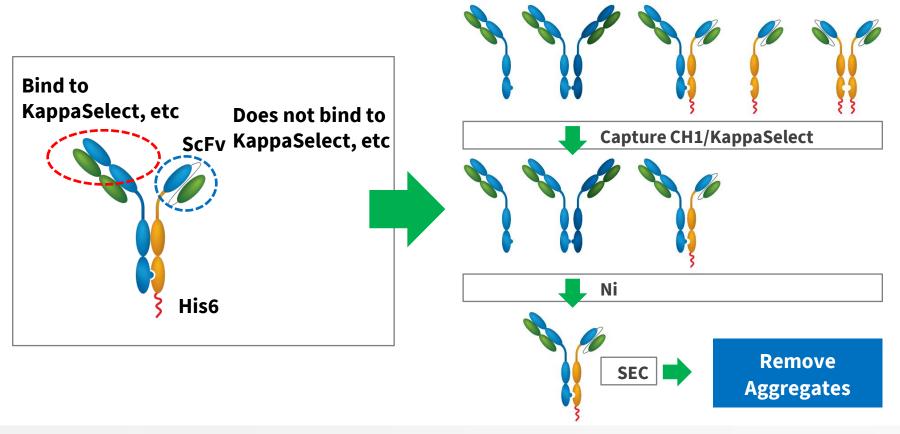




Customized HTP BsAb Production at the Discovery Stage

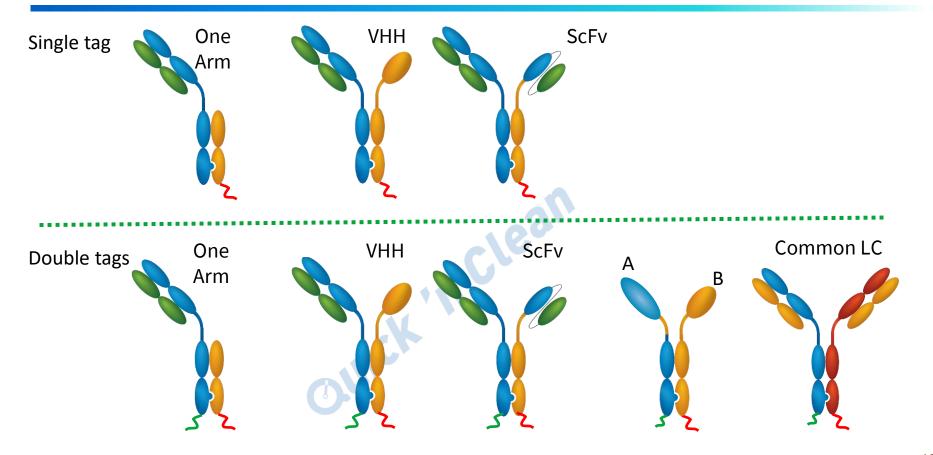
Quick 'n' Clean - An Example Format



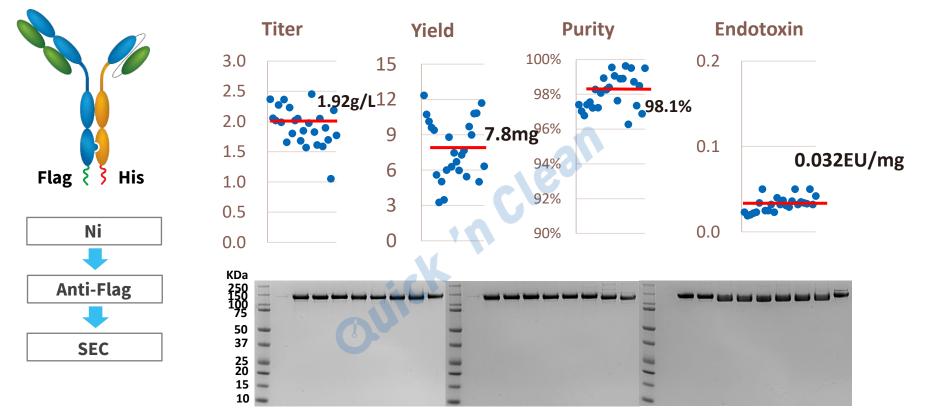


Customized Formats to Screen Large Number of BsAb at Early Stage



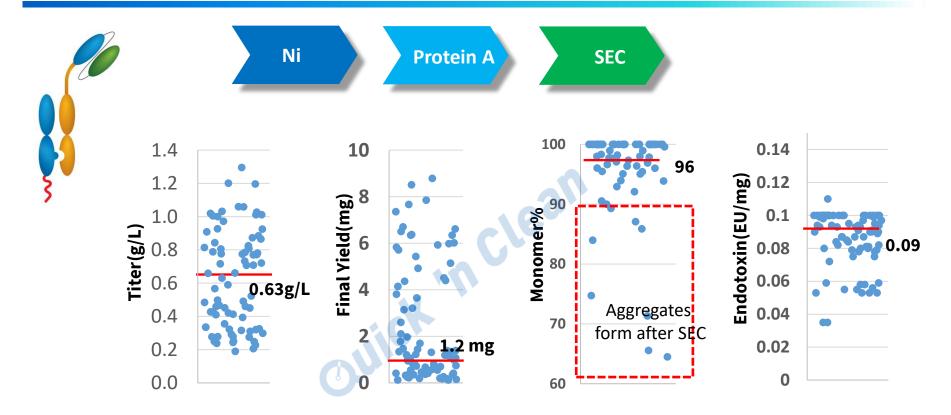


Quick 'n' Clean - Case Study: 25 Fab-ScFv with Double Tags (20 ml)



Case Study: 65 One Arm ScFv (20 ml)



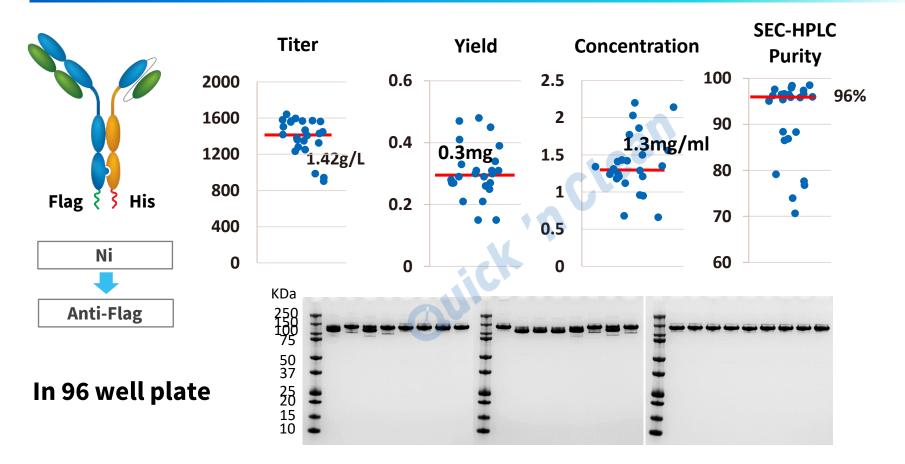




When **Quick 'n' Clean**

Meets **Últra 96+**

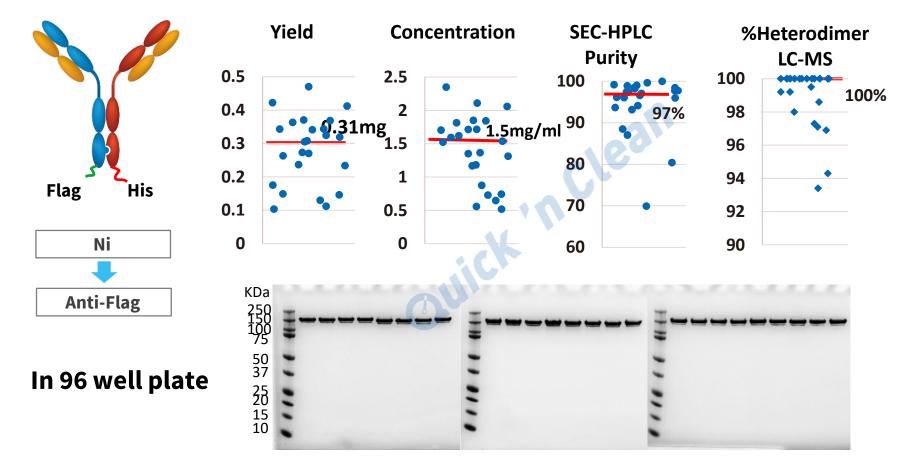
Quick 'n' Clean - Case Study: 25 ScFv-Fab with Double Tags(1 ml)



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Case Study: 25 Common LC BsAb with Double Tags(1 ml)







Premium BsAb

- Extensive experience on most BsAb formats
- **No tag**, extensive scouting and optimization of purification
- Delivers 10 mg to grams of BsAb in 4-6 weeks
- BsAb verified by intact mass
- High quality for *in vitro* and *in vivo* studies

Quick 'n' Clean

- Optimized for screening large number of BsAb at the early stage
- Customized designs with His/Flag tags
- Automated 3-step purification including SEC
- 1-5 mg BsAb from 20 ml cell culture, 4 weeks timeline
- **99% heterodimer,** >95% monomer, <0.5EU/mg endotoxin
- High quality for generating consistent data in most *in vitro* studies
- Plate based Quick n Clean can generate thousands of BsAb



Thank You

Drug Development Expertise, Protein Production Excellence

