



WuXi Biologics' industry-leading R&D-scale custom protein production group generates high-quality proteins and antibodies to meet your schedule and requirements. No project is too large or small. As part of these services, we offer expedited 777 mammalian transient production for low endotoxin and low aggregate antibodies in just 3 weeks, suitable for both *in vitro* and *in vivo* studies.

777 Antibody Production



- ✓ **7 days for Construct Generation**
 - Codon Optimization
- ✓ **7 days for Protein Expression**
 - Average mAb Titer 900 mg/L
- ✓ **7 days for Purification and QC**
 - >95% High Purity
 - Low Endotoxin

These timelines represent the typical turnaround time for a regular monoclonal antibody. More complex molecules such as bispecific antibodies, Fc-fusion proteins, and other recombinant proteins usually have longer timelines.

FREE Cloning & DNA Preparation

High-quality antibody is good for most *in vitro* and *in vivo* studies

Low aggregation (>99% monomer)

Low endotoxin (<0.5 EU/mg)

Many scales are available (yields are dependent on molecules)

20 mL (3-10 mg)

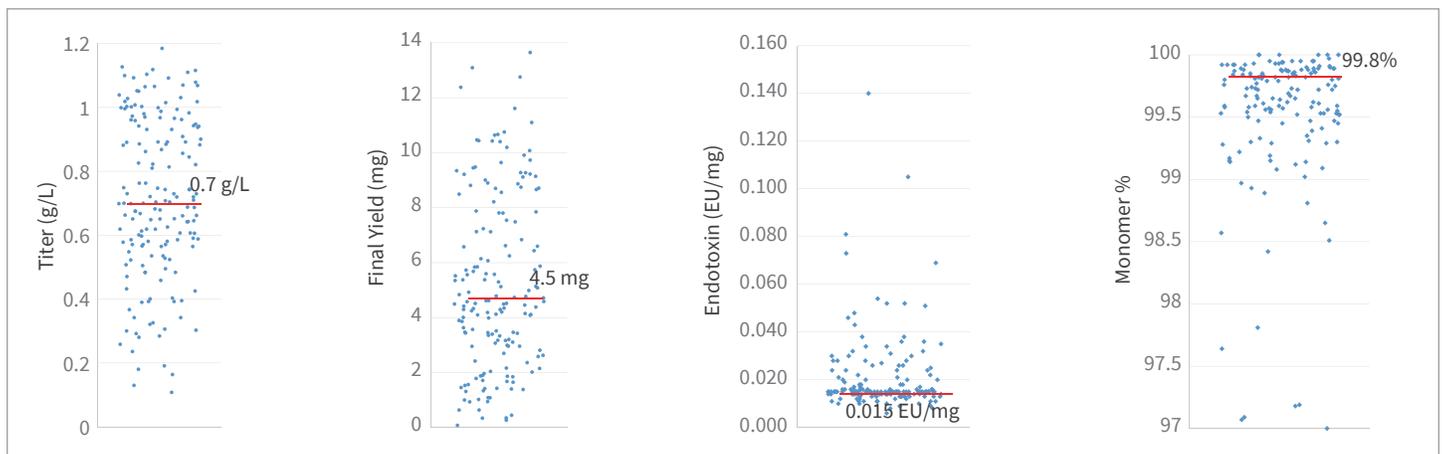
100 mL (15-100 mg)

200 mL (30-200 mg)

500 mL (100-500 mg)

Case Study: Regular IgG Antibodies at 20 mL Each

Below is an example of 170 IgG antibodies from early discovery before any optimization or process development. The molecules behave quite differently which is a characteristic of early-stage leads. This case is a true representation of WuXi Biologics Protein Sciences' capabilities. We achieved average 225 mg/L yield after 2-step automated purification while maintaining endotoxin <0.1 EU/mg without endotoxin removal step.

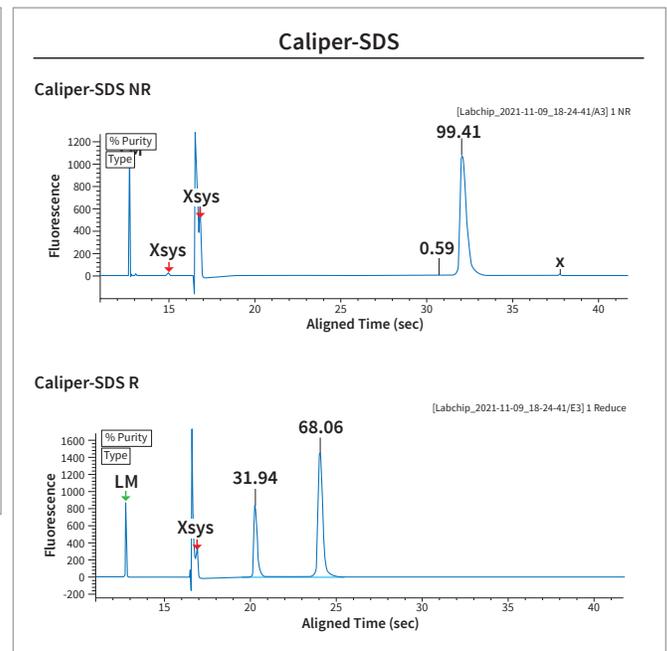
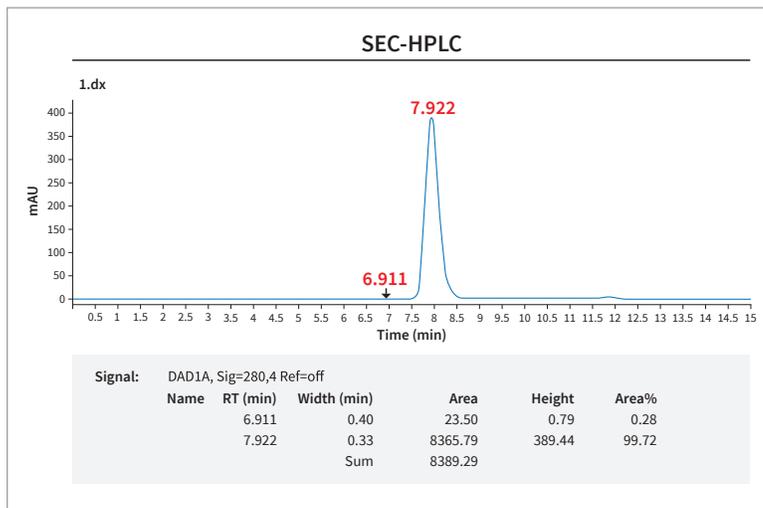


777 Service Details:

Service Item	Deliverables	Duration	QC
Construct generation, cloning and plasmid prep all included			
20 mL CHO/HEK293	3-10 mg, average 4.5 mg after 2-step purification	3 weeks	A280, Caliper (R/NR) or SDS-PAGE (R/NR), SEC-HPLC, and endotoxin (<0.5 EU/mg)
500 mL CHO/HEK293	100-500 mg	3 weeks	
Additional QC	RP-HPLC, bioburden, DSF, DSC, SPR, LC/MS, SEC-MALS, peptide mapping, glycan profiling, cIEF, CHO HCP, residual DNA, ELISA, Western blot, freeze thaw study, micro-developability testing		

Case Study: High-Purity mAb Production Confirmed by SEC-HPLC and Caliper-SDS Data

In this case, the purity of vanilla antibodies produced in 777 platform showed high purity.



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.

wuxibiologics.com | info@wuxibiologics.com

WuXi Biologics
Global Solution Provider

Learn more:

Protein Sciences: HTP Production of High-Quality Vanilla Antibodies

