

Syracuse Bio Campus

Analytical Capability

Reliable analytics are the foundation of every successful biologics program.

Our analytical development services support the full lifecycle of biologics programs with rigor, precision, and scientific depth.

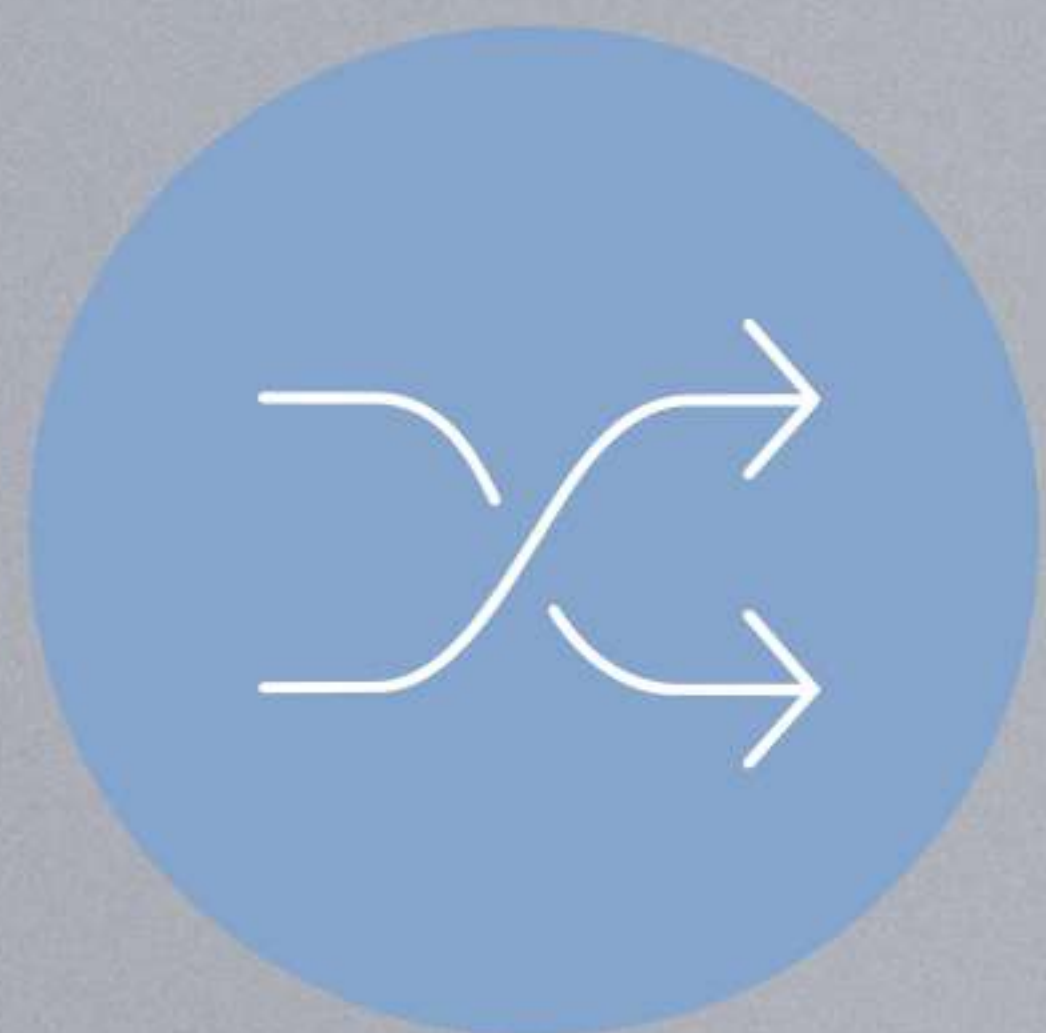
Our teams provide comprehensive capabilities designed to meet the evolving needs of both traditional biologics and advanced modalities.

Why LOTTE Biologics

Analytical Services Across the Product Lifecycle



**Analytical Method
Development**



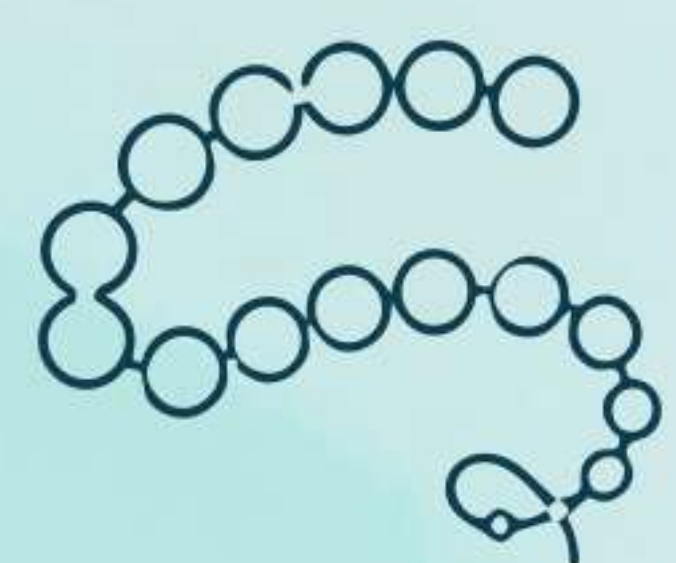
**Analytical
Transfer & Validation**



**Analytical
Support**

From analytical development through commercial manufacturing support, our teams help enable product understanding, consistency, and readiness.

Analytical Characterization



Structure

- Primary structure & disulfide bonds
- High-order structure
- Molecular weight / intact mass
- Glycosylation



Particle

- Size distribution
- Shape / morphology
- Apparent particle type



Function

- FcRn binding (PK)
- Target / Fab binding (MoA)
- Fc receptor binding (Effector)
- Cell-based assay (Potency)



Advanced

- Host cell protein ID & quantification
- Native MS analysis

** Some characterization tests outsourced as per customer need*

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Manufacturing & Comparability Support

Commercial Manufacturing Forensic Analysis

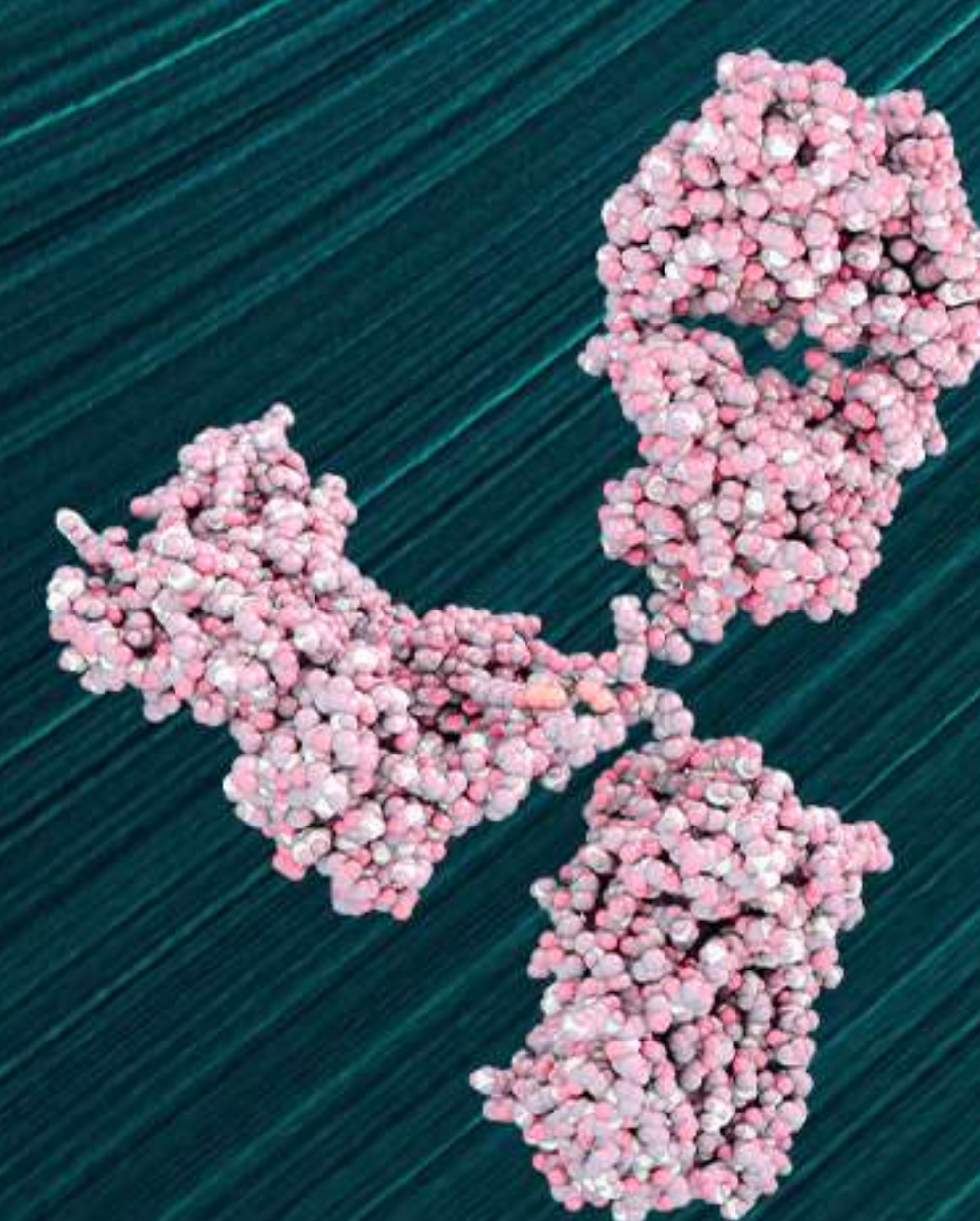
- Elemental impurity analysis from bag and buffer leachables / extractables – ICP/MS
- Colloid and aggregate analysis – DLS
- Subvisible particulate analysis – Flow imaging

PPQ / Manufacturing Process Comparability

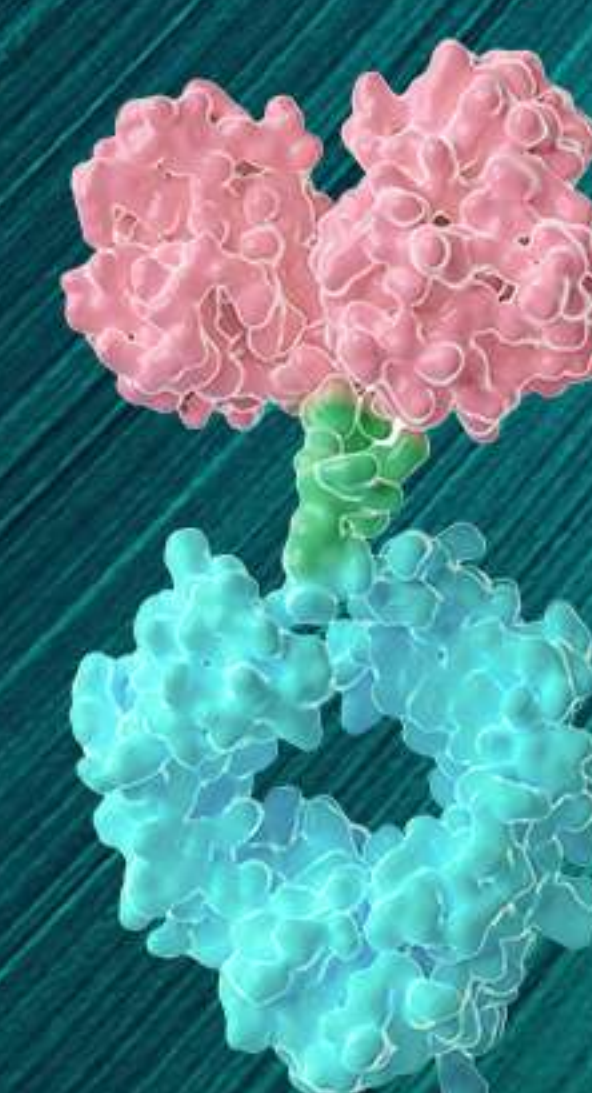
- Turn-key comparability evaluation package customized for late-phase clients
- Turn-key support for comparability assessment before and after manufacturing scale-up and process changes
- Commercial process validation QA evaluation

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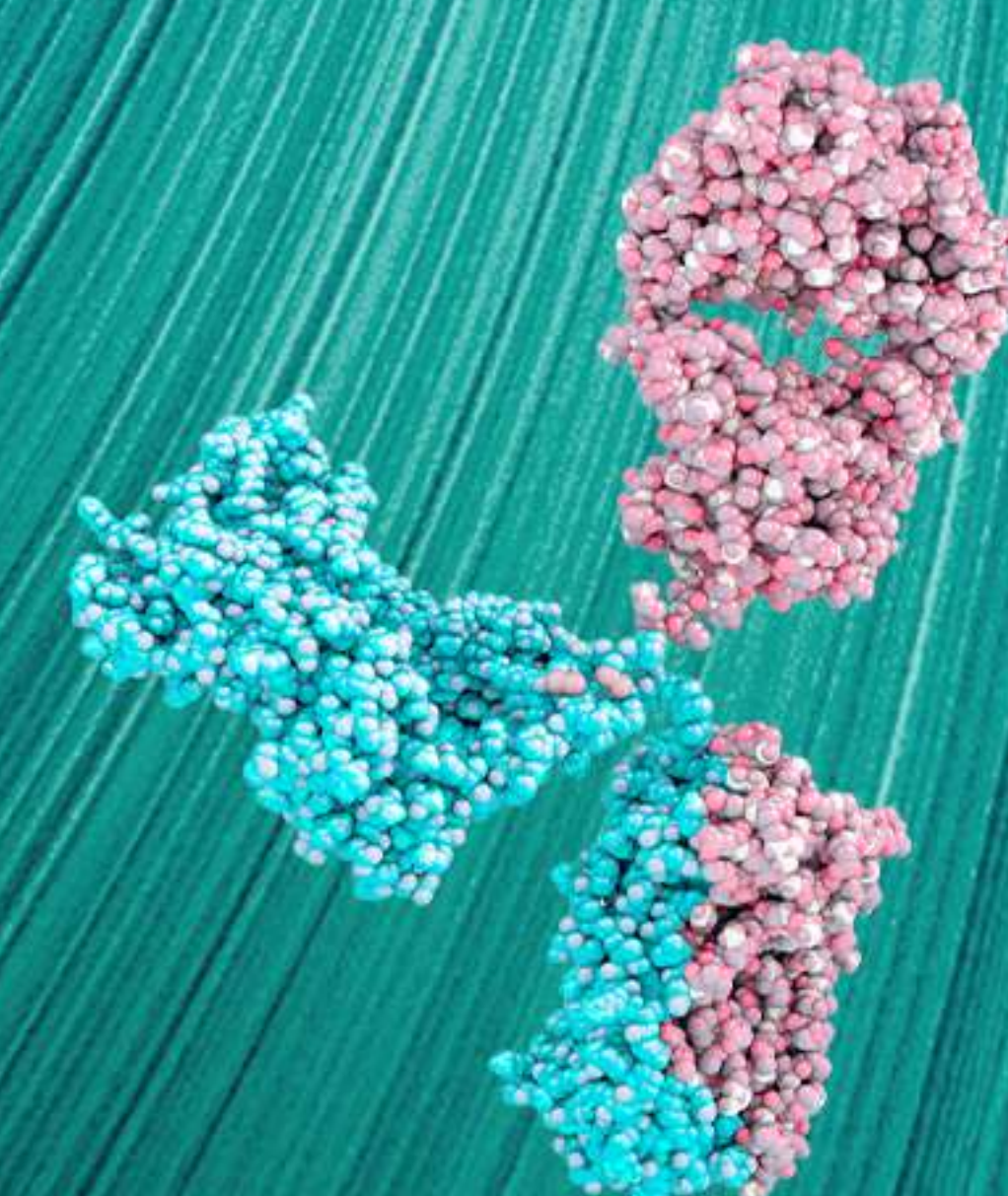
Expansion into Various Modalities Biopharmaceutical Characterization



Antibody



Fusion Protein



Bispecific Antibody

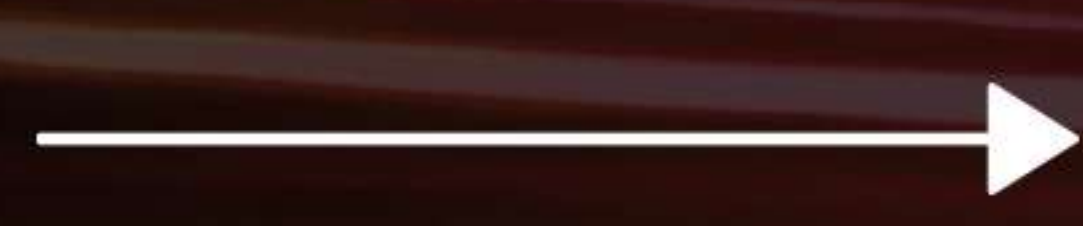


Accelerating Analytical Readiness

Reducing Analytical Development Timelines

Shortened from

12-24 Weeks



LOTTE Biologics standard



4-8 Weeks

Leveraging template analytical methods
across biologics and ADC programs

**Methods: LC-MS | CE-SDS | ELISA | SPR | CEX | icIEF |
and more**