

A flexible approach to Biotherapeutics and Vaccines

AT QPS, TRANSLATIONAL MEDICINE BRINGS TOGETHER LEADING-EDGE TECHNOLOGIES AND

pharmaceutical research and development experience to create a business service unit that works efficiently to advance your drug development program.

TIME IS OF THE ESSENCE IN DRUG DEVELOPMENT.
CONTACT THE OPS BUSINESS DEVELOPMENT TEAM TODAY!

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Quantitation of Biologics Using Ligand Binding Assays (LBAS)

QPS is at the forefront of a wide range of LBA technology platforms including ELISA using colorimetric, fluorescent and chemiluminescent detection as well as Gyrolab®, electrochemiluminescence (ECL) on the MSD® platform and Quanterix® platform. Our in-depth technical expertise enables us to offer cost-effective services for pharmacokinetics (PK) and immunogenicity – both antidrug antibody (ADA) and neutralizing antibodies (NAb) assessments – in various biological matrices.

Quantitation of Biologics Using UPLC-MS/MS

QPS has analyzed polypeptides and proteins using LC-MS/MS since 2000. The direct approach combines sample extraction from the biological matrix, followed by sample clean-up, concentration and UPLC-MS/MS analysis. We also offer a more elegant approach starting with immunoaffinity capture followed by enzymatic digestion and LC-MS/MS. Essentially, this method uses an immunoaffinity column or beads to selectively enrich the target peptide(s) and /or protein(s) prior to analysis, resulting in lower total signal complexity and higher specific peptide(s) signal by LC-MS/MS. The decision on what methodology to use depends on the individual protein target. Both approaches are non-trivial and utilize the skills of our highly experienced bioanalytical chemists.

Cell-Based Assays

Since 2002, QPS has supported more than 50 cell-based studies for numerous sponsors.

Capabilities include:

- ► Endotoxin Stimulation (Cytokine Production)
- Compound Toxicity on Monocytes (Cytokine Induction)
- ▶ Uptake Study (³³P) Using Primary Cells
- Toxin Neutralizing Assay (Cell Proliferation)
- Neutralizing Antibody (NAb) Assay (Cell Viability)
- Custom Functional Assay

Immunogenicity & Neutralizing Antibodies

Capabilities include:

- Preparation of antigen-protein conjugates for plate coating
- Method development and validation using ELISA format
- Screening for positive responses in study samples
- Confirmation test for samples displaying positive responses during screening
- ► Titering of confirmed positive samples to determine the relative degree of antigenicity
- Detection and determination of various classes of antibodies
- Neutralizing antibody assays

QPS is a Global CRO with locations around the world

