

# A FLEXIBLE APPROACH TO LC-MS/MS OF SMALL & LARGE MOLECULES

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WHEN YOUR FOCUS IS SMALL MOLECULES,  
BIOMARKERS OR PROTEIN BIOTHERAPEUTICS,  
QPS' LC-MS/MS laboratories provide a full range of  
bioanalytical solutions to support drug development  
from discovery through clinical development.





## LC-MS/MS OF SMALL AND LARGE MOLECULE THERAPEUTICS AT QPS

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QPS is a Global CRO with state-of-the-art, harmonized bioanalytical facilities strategically located in North America, Europe and Asia. With over 20 years of experience, our scientists have developed and validated 800+ LC-MS/MS assays to support wide range of compounds serving the Pharmaceutical and Biotech industries. QPS labs offer bioanalytical solutions from discovery, regulated non-clinical through Clinical Phase IV with extensive experience in conventional matrices (plasma, serum, whole blood, urine, feces) as well as various animal and human tissues. Our expertise across locations and harmonized equipment and SOPs allow for smooth method transfers between the bioanalytical labs.

### Fast Turnaround

With our Good Laboratory Practice (GLP) compliant bioanalytical laboratory located within walking distance from our Phase I Clinic, we can guarantee fast turnaround times for your time critical clinical studies. Our fleet of the latest mass spectrometers combined with modern UPLC frontend systems and high-throughput automation provide the capacity and speed that your program requires. QPS is committed to investing in innovative technologies which move your programs faster and offer you the best custom-built solutions for any challenge.

### Data Quality Is Key

QPS laboratories are GLP compliant/certified since 2002 and for Clinical Bioanalysis Good Clinical Practice (GCP) standards are embedded within our GLP Quality systems. Our robust methods are fully validated in compliance with the FDA and EMA guidelines. Moreover, our scientists have leadership roles in regulatory discussions in the Global Bioanalytical Consortium and European Bioanalytical Forum (EBF). QPS laboratories are inspected by our sponsors, regulating authorities and the FDA, with a proven track record of excellence.



## LC-MS/MS and Biologics

The focus on development and advancement of large molecule therapeutics continues to occupy more and more of pharmaceutical pipelines. Such biologics include polymers of amino acids (peptides, polypeptides and proteins including antibodies), oligonucleotides and many endogenous biomarkers with molecular weights above 1000 Da. As early as the year 2000, QPS recognized using LC-MS/MS to quantify these complex molecules eliminates the need to generate specific antibodies while yielding similar levels of detection (especially with immunocapture – hybrid LBA/LC-MS/MS methodology) and an advantageous larger dynamic range without cross-reaction interference. In addition, this technique can allow for the analysis of several proteins simultaneously (multiplexing). Our dedicated department of Mass Spectrometry Scientists offers custom-built analytical methods to support large molecule therapeutics and biomarkers. Each biologic is unique and our analytic approaches range from traditional extraction to automated immunoaffinity capture and enzymatic digestion prior to LC-MS/MS detection. The decision on what methodology to use depends on the individual protein target and non-trivial methodologies utilize the skills of our highly experienced bioanalytical chemists.

## Education and Social Responsibility

QPS embraces its responsibility to the local community by playing an important role in the laboratory education process. Our Netherlands scientists are lecturers in Bioanalysis at the Hanze University of Applied Sciences in Groningen and support students via internship programs within our laboratories. Future young professionals are trained on state-of-the-art equipment within a regulated work environment that serves global drug development programs. In addition, QPS experts are contributors to the Netherlands National Scientific Advising Committee for Laboratory Education.

## QPS Assay Finder Available as an App and on qps.com

The QPS Assay Finder contains over 800 validated assays categorized by Therapeutic Area. Search on our website or in the App for a validated assay to fit your needs. Visit <https://www.qps.com/service/bioanalysis/qps-assay-finder/> to find an assay today.



## QPS IS A GLOBAL CRO WITH LOCATIONS AROUND THE WORLD

### BENEFIT FROM THE RESOURCES OF A GLOBAL CRO



Whether your focus is small molecules, protein biotherapeutics, vaccines, gene therapy or cell therapy, QPS provides a full range of bioanalytical services to support drug development needs from discovery, through clinical development and regulatory filing.



CUSTOM-BUILT RESEARCH™

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

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