

Chromatography & Mass Spectrometry at PRA's Laboratories for Drug Development

Introduction

With over 35 years of experience in chromatography and over 25 years in mass spectrometry, our analytical laboratories are here to help you support any drug development program.

We apply LC-MS to a wide and expanding range of molecular entities, including small molecules, peptides, oligonucleotides and proteins, both drugs and biomarkers, in a variety of biological fluids and tissues.

Innovation

To meet the ever-increasing needs of contemporary bioanalysis, we routinely apply a variety of (manual and robotic) extraction techniques, including immunocapture and solid-phase (micro-)extraction. We have a track record in complex derivatization procedures to improve analyte properties, as well as in the handling of various dried and wet microsamples. In addition, we have extensive experience in quantification of peptides and proteins, intact as well as after digestion, on both triple-quadrupole and QTOF high-resolution MS, which is supported by the fundamental research we perform in this field at the University of Groningen.

Capabilities and Equipment

We offer:

- Comprehensive feasibility assessment
- Method development, transfer, and optimization
- Full method validation, as well as context-of-use method qualification, depending on your needs
- Preclinical and clinical sample analysis, in compliance with all global scientific guidelines

We use:

- > 30 Sciex Mass Spectrometry systems (API 4000-5000-5500-6500)
- Agilent and Waters U(H)PLC systems
- TomTec Quadra4 automated liquid handling

Capacity and People

Our laboratories are of sufficient size to absorb large studies and to respond flexibly to changing needs. We offer a team of well-trained and enthusiastic scientists, analysts, and project managers with the skills and experience to take proper care of all your projects, of any size and complexity.



Expertise

Our experienced and dedicated scientific team are recognized for their innovative and efficient approach to method development, always aiming for the highest possible quality. We have extensive experience in handling difficult analytes, such as unstable or adsorption-sensitive compounds, endogenous molecules, chiral compounds and heterogeneous macromolecules, where needed down to low- or sub-pg/ml levels.

Contact Our Experts

NICO VAN DE MERBEL

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Senior Director of Bioanalytical Science in the Assen, NL, Bioanalytical Laboratory with global science responsibility for LC-MS/MS at PRA. Professor of Industrial Bioanalysis at the University of Groningen. Over 25 years of experience in applying LC-MS technology for the quantification of small molecules and biologics.

COREY OHNMACHT

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Director of Bioanalytical Science in the Lenexa, KS, Bioanalytical Laboratory. Over 14 years of industry experience in separation science and mass spectrometry for the analysis of small molecules, peptides, and proteins. Specialty in detection enhancement derivatizations and free drug analysis.

REMCO KOSTER

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Associate Director of Bioanalytical Science in the Assen, NL, Bioanalytical Laboratory. Over 18 years of experience in applying LC-MS/MS technology for the analysis of small molecules and is PRA's global microsampling specialist.



Equipment



Sciex Mass Spectrometry system



Agilent and Waters U(H)PLC systems