

# Application Solution



Focus on used analytical  
instrument

## Clinical Diagnosis



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- As a clinical diagnostic laboratory, it needs to be able to perform a large number of tests very accurately and sensitively, so it faces many difficulties. Current laboratory technology may be affected by cross reaction and result deviation. The supply of reagent kits available for new detection is slow, and sample preparation usually requires a lot of manual operations
- The LC-MS/MS system for in vitro diagnosis is designed to help you optimize the entire laboratory workflow from pre-analysis (preparation of solution), analysis (LC to LC-MS/MS) to post-analysis (data information). With the continuous expansion of this product portfolio, the functions become more and more diverse, providing you with a large choice of LC-MS/MS for routine use in clinical laboratories

# Clinical Diagnosis

## ➤ LCMSMS IVD

### Waters XEVO TQD LCMSMS



- ✓ Durable, stable and reliable Xevo TQD: providing stable performance for clinical analysis
- ✓ Xevo TQD is a single-supplier solution designed for conventional quantitative LC-MS/MS applications, which can enable the system to obtain sensitivity, selectivity and stability, and ensure the maximum production capacity with the smallest possible workload
- ✓ With excellent stability, it can efficiently optimize the uptime, speed up the development of sensitive and stable methods, reduce complexity and improve ease of use
- ✓ With outstanding stability, the flux and uptime can be efficiently optimized. It has a very wide range of ionization capabilities today and can meet the needs of future innovation
- ✓ Clinical laboratories can now obtain the selectivity, sensitivity and versatility of LC-MS/MS analysis, which is a cost-effective new choice for clinical mass spectrometry detection

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## ➤ LCMSMS IVD

### Waters XEVO TQ-S micro LCMSMS



- ✓ Ultra-high performance, compact design, fast and reliable analysis, reproducible quantitative data, suitable for clinical laboratory
- ✓ The innovative tandem quadrupole mass spectrometry designed for small space has a very wide dynamic range and can achieve consistent low concentration quantitative analysis, with the following advantages:
- ✓ Capable of reproducible and stable detection of low concentration analytes in complex biological liquid sample matrix, and accurate quantification of more analytes through high collection rate
- ✓ Xtended Dynamic Range (XDRTM) detector can provide applicable sensitivity and method switching: with RADARTM technology, sample complexity can be fully understood and method development can be optimized
- ✓ Today, LC-MS/MS analysis technology can help clinical laboratories achieve selectivity, sensitivity and functional diversity that traditional technology can not match

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## ➤ LCMSMS IVD

### Waters XEVO TQ-S LCMSMS



- ✓ With the help of StepWave's innovative technology, this powerful tandem mass spectrometry can play an excellent sensitivity, and can accurately quantify trace analytes even in very complex clinical matrices
- ✓ This series quadrupole instrument is specially designed for LC-MS/MS quantitative application with extremely strict requirements. It can play an excellent role and allow your laboratory to obtain ultra-high sensitivity and stability. StepWave ion guiding device can improve the sensitivity to difficult compounds
- ✓ Enhanced detection system, with linear dynamic range of up to six orders of magnitude, ensures high performance within the concentration range of target analysis
- ✓ Tool-free probe design helps reduce the time required for routine maintenance and improve the reproducibility between different users
- ✓ Accelerate the development of methods and speed up the development of sensitive and stable methods



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## ➤ LCMSMS IVD

### SCIEX 4500 TripleQuad LCMSMS



- ✓ AB SCIEX Triple Quad™ 4500 is a flexible liquid chromatography tandem mass spectrometry platform
- ✓ Liquid chromatography-mass spectrometry (LC-MS) is one of the most important qualitative and quantitative technologies at present. It combines the high separation ability of liquid chromatography with the high sensitivity and specificity of mass spectrometry, and is applicable to the detection and analysis of various hydrophilic, volatile, low-heat unstable and biological macromolecular compounds
- ✓ The main object of clinical chromatography-mass spectrometry laboratory detection is human biological samples, whose matrix is complex and target analysis types are wide. Liquid chromatography-mass spectrometry technology can be well applied to the analysis and determination of various compounds in complex matrices, and plays an irreplaceable role in the detection of genetic metabolic diseases, steroid hormone detection, therapeutic drug monitoring and other aspects
- ✓ The detection platform of chromatography and mass spectrometry instruments has become the necessary platform for large hospital laboratories to provide some special detection, such as the detection of immunosuppressants, toxicology, hormones and genetic metabolic diseases

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## ➤ LCMSMS

### SCIEX 5500 TripleQuad LCMSMS



- ✓ AB SCIEX triple quadrupole 5500 system is currently a highly sensitive tandem quadrupole mass spectrometry system
- ✓ The triple quadrupole 5500 system not only has the highest sensitivity, but also can analyze and detect samples with the most complex matrix, easily surpassing the mass spectrum performance required by DMPK and ADME research fields, and is competent for the multi-component quantitative detection and analysis requirements of environmental monitoring, target quantitative proteomics, clinical research and food safety
- ✓ Adopt the newly designed eQ on the 5500 system™ The electronic system, combined with other new patented technologies and the powerful new generation of Analyst software, creates a new generation of quantitative analysis mass spectrometry technology platform with excellent performance, convenient operation, durability and high throughput
- ✓ Convenient and efficient: a powerful software system that integrates various technical solutions has established a new standard of high efficiency, high throughput and high yield. It can establish a simple and convenient LC-MS analysis method for multiple target substances in a single injection analysis, and can obtain excellent quantitative results



**THANK YOU !**

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