

## BioAccord System with ACQUITY Premier

The BioAccord™ System is a fully integrated solution that simplifies high performance LC-MS analysis for every user. An easy-to-use system solution that puts the power to make decisions directly in your hands; a self-calibrating, self-optimizing, self-sufficient tool that equips you with high quality data you can use to tackle the challenges you face every day during biopharmaceutical development and manufacturing.

The BioAccord System now incorporates ACQUITY™ Premier UPLC™ and chemistries with MaxPeak™ High Performance Surfaces (HPS) Technology which improves separation and detection in biotherapeutic analyses.

In addition to providing high quality data, the BioAccord System is optimized for unparalleled robustness and reproducibility for each application, giving you the confidence of obtaining consistent results day in, day out.



### SYSTEM HARDWARE AND CAPABILITIES

#### MASS DETECTION

Ionization mode	Electrospray Ionization (ESI) Adjustment-free high performance ZSpray™ dual-orthogonal atmospheric pressure ionization electrospray interface for robustness and reliability Integrated adjustment-free plug-and-play probe for reduced dispersion and reliability
Mass analyzer	The instrument is equipped with a high resolution, high stability oa-ToF mass analyzer
Vacuum system	A fully automated and differentially pumped vacuum system comprising of an air-cooled split-flow turbo pump and one rotary backing pump
Acquisition modes	Full scan (MS) Full scan with fragmentation (data independent acquisition)
SmartMS™ features	The ACQUITY RDa™ Detector has an automated instrument set up and calibration routine for consistent results between users of all experience levels. The ACQUITY RDa Detector monitors instrument performance from run-to-run to ensure high quality data and increase confidence in your results. If an issue occurs, the software will either automatically resolve the issue or provide step-by-step guidance to assist the user



## LIQUID CHROMATOGRAPH

Solvent management	Binary Solvent Management or Quaternary Solvent Management
Number of solvents	Binary Solvent Management: Up to four, in combination of two: A1 or A2 and B1 or B2 Quaternary Solvent Management: Blend up to four solvents in any combination
Solvent storage	Four carrier solvent bottles
Solvent conditioning	Vacuum degassing of carrier solvents
Gradient formation	Binary Solvent Management: High pressure mixing, binary gradient Quaternary Solvent Management: Low pressure mixing, quaternary gradient
Carrier gradient profiles	11 gradient curves, including linear, step (2), concave (4), and convex (4)
Sample capacity	Any two of the following: 96 and 384 microtiter plates 48 position 2.00 mL vial plates 48 position 0.65 mL micro-centrifuge tube plates 24 position 1.50 mL micro-centrifuge tube plates
Column tracking	eCord™ Technology column information management tracks and archives column usage history
Optical detector options	ACQUITY Premier TUV Detector, ACQUITY Premier FLR Detector, ACQUITY Premier eLambda Detector

## SYSTEM SOFTWARE CAPABILITIES

Software	Systems supported by waters_connect™ informatics software
Supported workflows	Intact mass analysis, peptide mapping, peptide MAM, and released glycan analysis supported with the BioAccord System
Optional libraries	Three reference libraries based upon different labelling chemistries, including accurate mass and Glucose Unit (GU) information, are available for released glycan analyses.

## SYSTEM REGULATORY APPROVALS

Regulatory approvals/marks	CE, CB, NRTL (CAN/US), RCM
Column management	Column Heater (CH-A): Single column (maximum length of 150 mm) Column Manager (CM-A): Two columns, as standard (maximum length of 150 mm)

For more detailed instrument performance specifications, please contact your local sales representative.

For patent information, please see [waters.com/patents](https://www.waters.com/patents)

# Waters

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