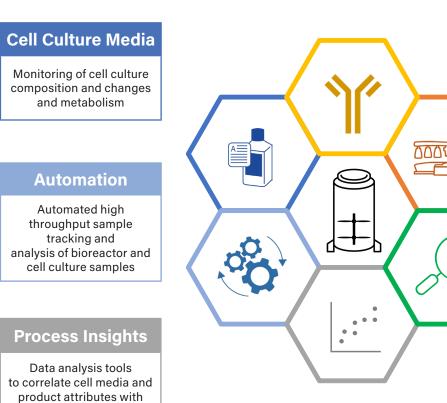
[BIOPROCESS WORKFLOWS]

At-line Solutions for Upstream **Bioprocessing**

In-process monitoring of critical quality attributes



Upstream Bioprocess Applications



process outcome

Intact Drug Substance

Direct analysis of drug substance identity, modifications and variants

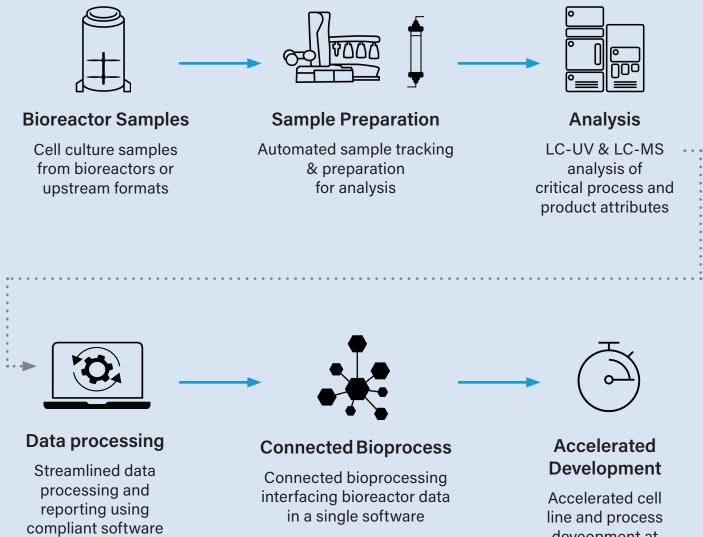
Sample Preparation

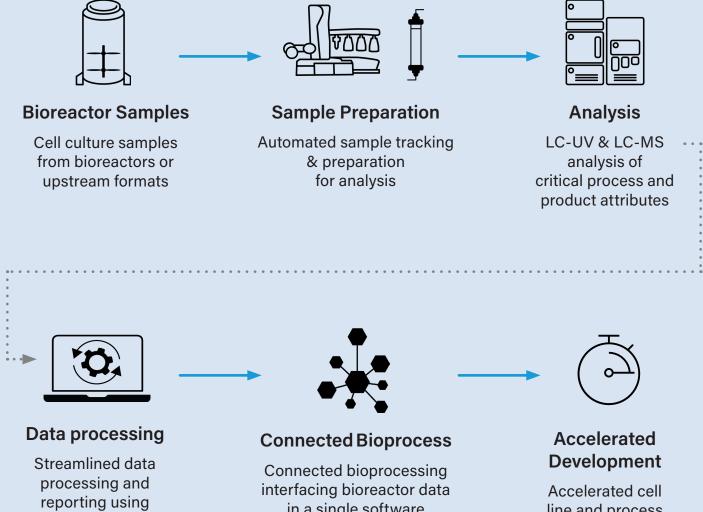
Simplified sample preparation for in depth product and process monitoring

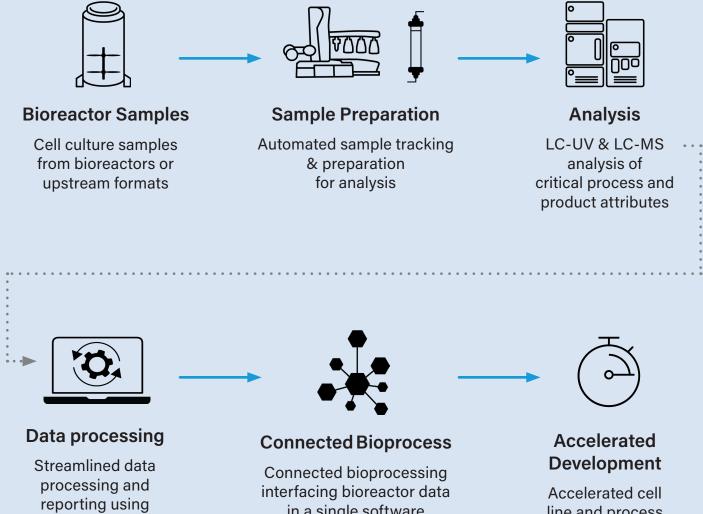
PQA Monitoring

Site specific multiple attribute characterization of critical quality drug features

Bioprocess Workflows from Start-to-Finish







Integrated Process Analytical Technologies

Compact

Integrated LC-MS System with SmartMS technology for ease-ofuse and robustness



Compliance-ready

deveopment at point of need

Ready for use in regulated development and GMP environments

Standardized

Deployable and scalable solutions with reduced training requirements

Optimized Performance for proteins, peptides, released glycans and oligonucleotides

Workflow driven

aters™

Built-in apps to automate sample tracking, preparation, data acquisition, processing and reporting

waters.com/bioprocessing

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