### [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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