



BioPhase 8800 system

Multiply your results.
Multiply your success.



The Power of Precision

Assess molecular liabilities more quickly

Innovated from the ground up, the BioPhase 8800 system from SCIEX helps biopharmaceutical labs take charge of their development pipelines. Scientists can now assess molecular liabilities more quickly, allowing rapid developability assessment to streamline the selection of candidates to be progressed into an effective therapy. Enable advanced integration of your BioPhase 8800 system with the Empower Chromatography Data System [CDS] for data integrity compliance, reducing regulatory risk and maximizing method transfer efficiency.

Robustness

Designed for robustness, hardware and software advances ensure repeatability and increased reliability.

Flexibility

Flexible for your workflow requirements, switching between UV and LIF detection is simple and seamless. Integrated detection modules make it easy to go from one assay to the next without sacrificing consistency or performance.

Software

Reimagined software makes getting results quick and easy. Simple drag-and-drop functionality for method and sequence creation complements innovative data analysis to accelerate characterization from start to finish.

Compatibility

The system includes 96-well plates that are designed to ANSI/SLAS standards and are conveniently compatible with commercial liquid handling systems.



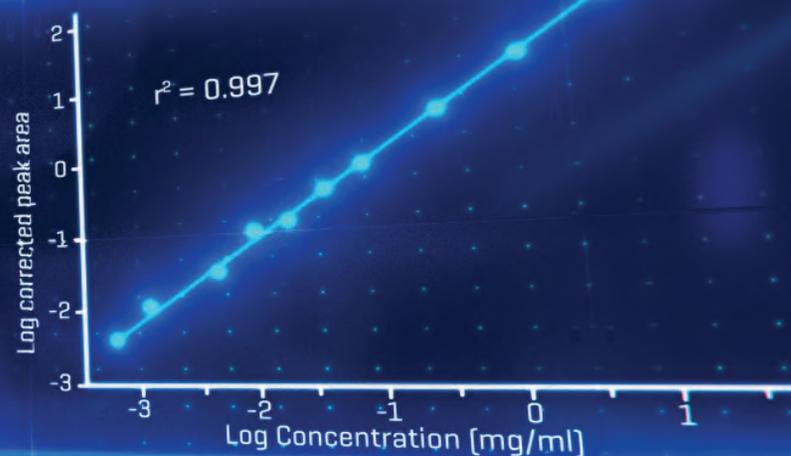
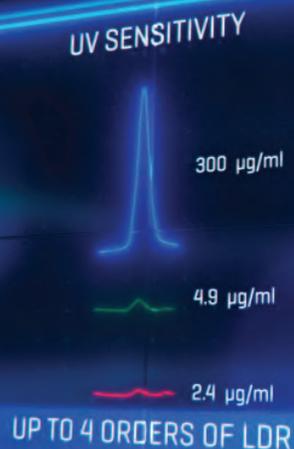
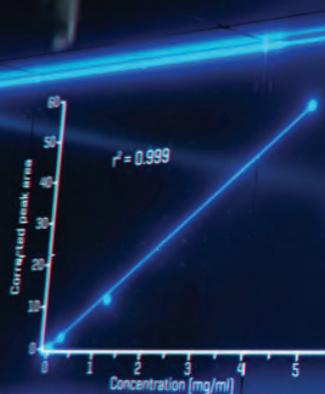


Run more samples and molecules through 8 parallel capillaries in a single system

Existing approaches to detect and characterize changes during development of monoclonal antibodies (mAbs), next-generation therapeutics and gene therapy products can struggle to deliver the detailed information you need when you need it.

The BioPhase 8800 system facilitates parallel processing of up to 8 samples simultaneously while retaining the capability to deliver sensitive capillary electrophoresis sodium dodecyl sulfate (CE-SDS) and imaged capillary isoelectric focusing (icIEF) analysis, enabling uncompromised accuracy for large sample sets and faster time to answers.





Take charge of your project timelines

Increase speed to market by making confident decisions quickly based on sensitive, high-resolution data that you've come to trust from SCIEX.

This speed of analysis helps retain sample integrity between the first sample and the last, delivering consistent, accurate characterization and quantitation for large samples sets, fast.

Streamline your workflow

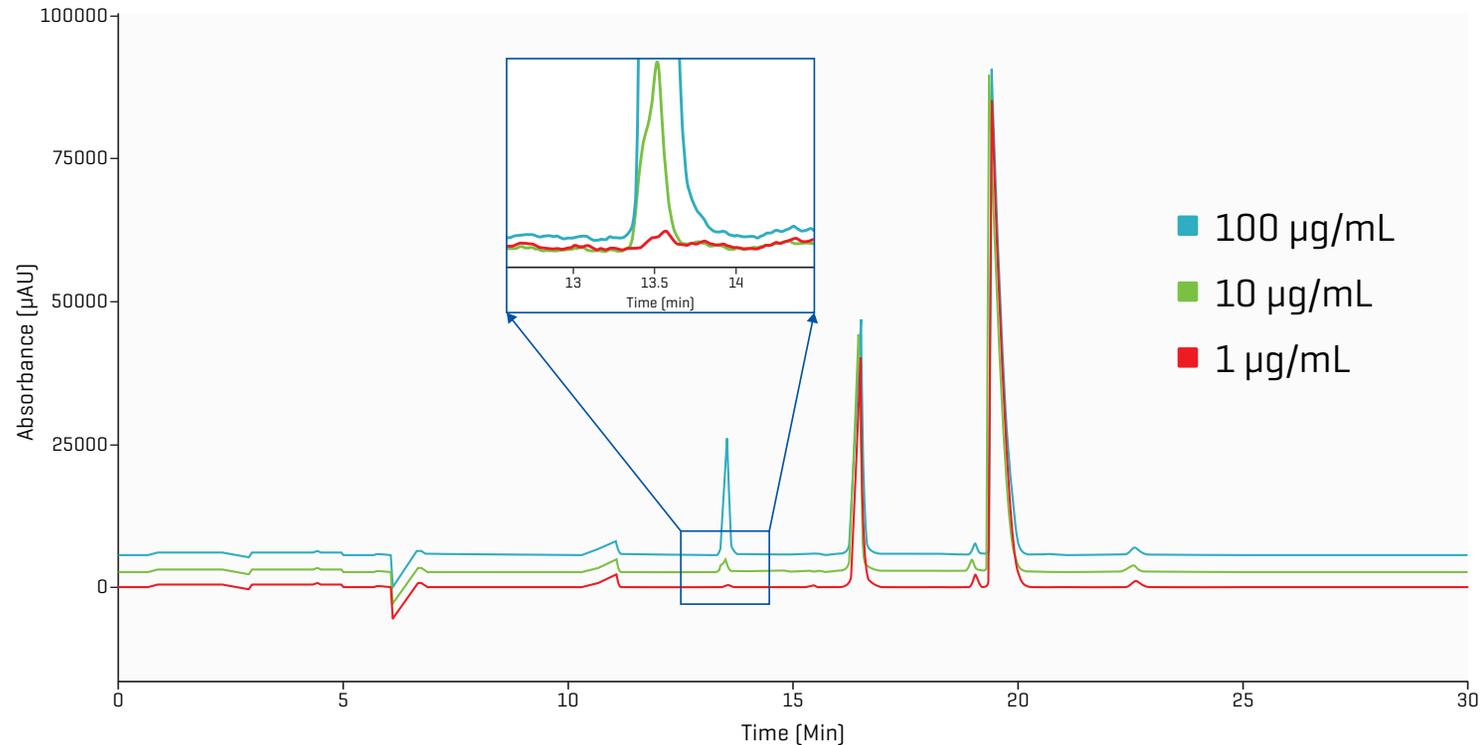
Validated assay kits simplify operation and minimize user error in core industry applications.

Factory-built, multi-capillary, temperature-controlled cartridges help to ensure maximum data reproducibility.



Automated and quantitative size and purity analysis

The CE-SDS assay of the BioPhase 8800 system minimizes sample prep and delivers high-resolution purity analysis to help you keep up with your increasing workloads.



Name	apex	ca	ca%	SNR RMS
Lysozyme 0.1%	13.57	29.68	0.09	24.79
mAb main product	19.44	32049.51	99.91	12535.09

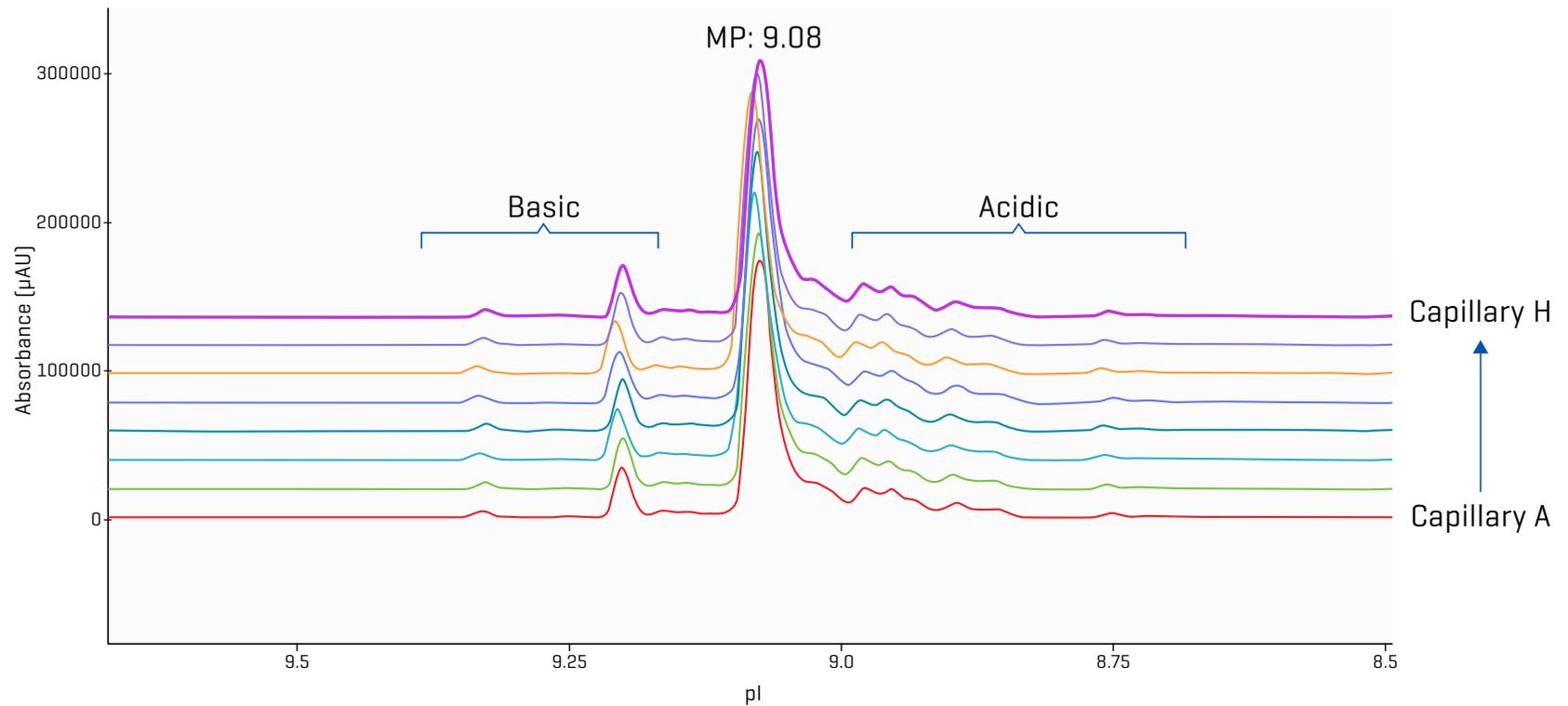
Regulators commonly require quantitation down to 0.1% for impurities. The BioPhase 8800 system with UV detection easily detects 0.1% lysozyme spiked into 1,000 µg/mL of IgG.



Charge heterogeneity at warp speed

The BioPhase 8800 system delivers rapid and reproducible charge heterogeneity analysis via multi-capillary isoelectric focusing. Parallel processing of 8 samples simultaneously allows for significant improvements in method development optimization time.

Separation of NIST monoclonal antibody (NISTmAb) reference material by capillary isoelectric focusing (cIEF)



Eight capillary analysis with 6 replicates for NIST IgG

Repeatable and highly sensitive cIEF analysis on the BioPhase 8800 system.



Take your downstream resolution upstream

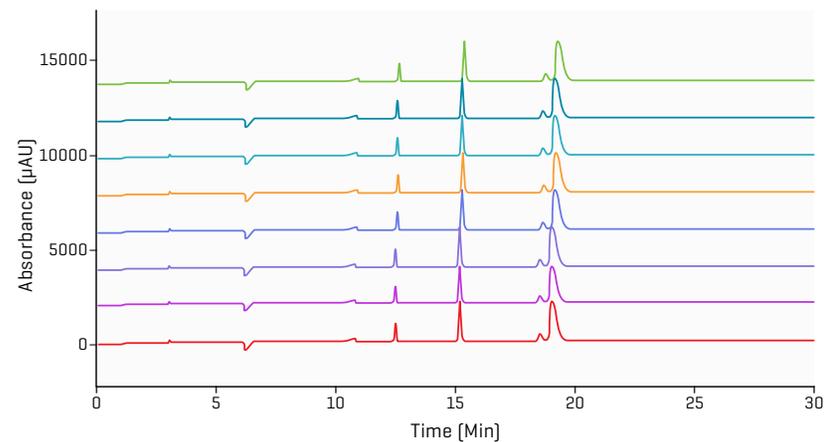
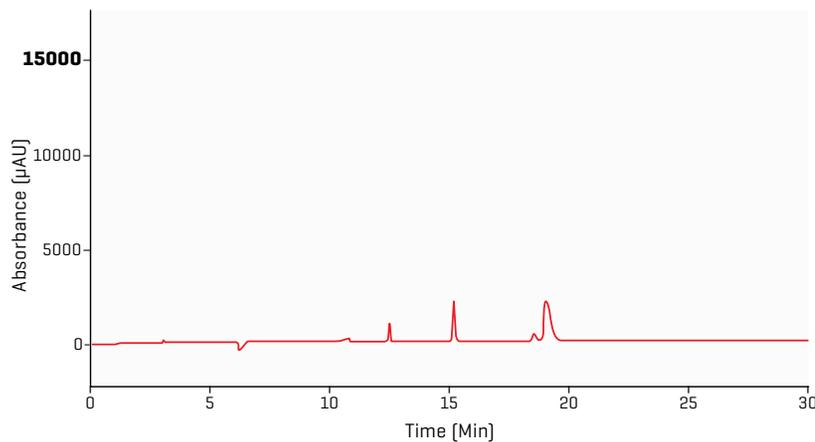
Delivering consistent, comparable data at any scale across the biologic development continuum, the BioPhase 8800 system provides high-throughput, high-sensitivity analysis for bioprocessing, analytical development and QA/QC, all in one system. Get PA 800 Plus system quality data with up to 8 times the throughput.

Reproducible and comparable at increased throughput

PA 800 Plus system

Up to 8 times faster

BioPhase 8800 system



Comparative analysis of sodium dodecyl sulfate capillary gel electrophoresis [SDS-CGE] separations of the reduced mAb sample on the multi-capillary BioPhase 8800 system and the single-capillary PA 800 Plus system.

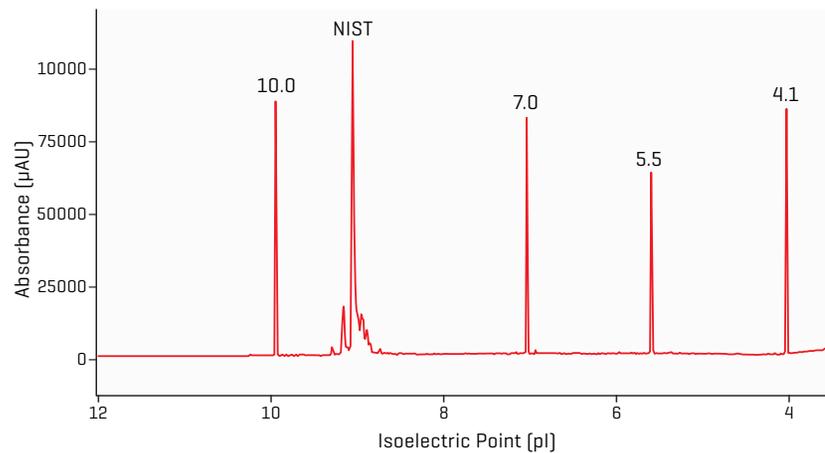


Technology transfer with ease

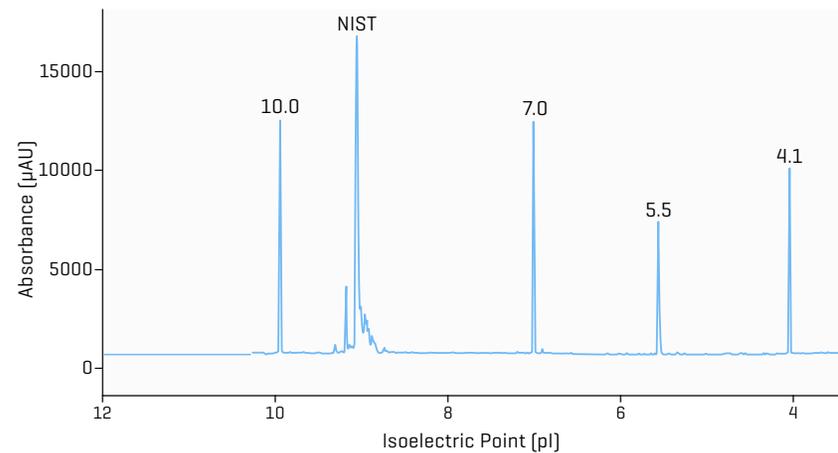
With the capability to functionally enhance characterization workflows, the BioPhase 8800 system represents the bridge between upstream and downstream sampling and processing, laying the foundation for consistent analysis throughout the biopharma development continuum.

Consistent data comparability using cIEF

PA 800 Plus system



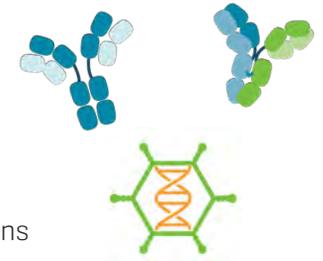
BioPhase 8800 system



Comparative cIEF analysis of NISTmAb on the PA 800 Plus system and the BioPhase 8800 system.

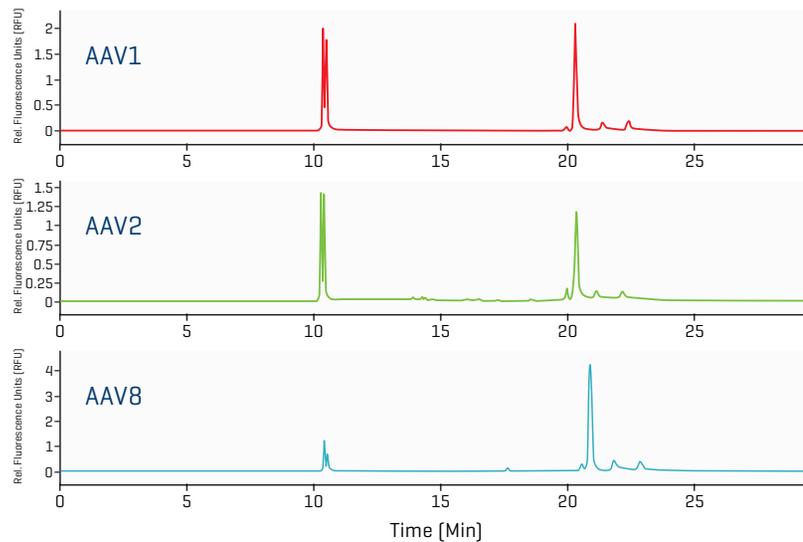


Run multiple applications for multiple molecules in a multi-capillary format on a single platform

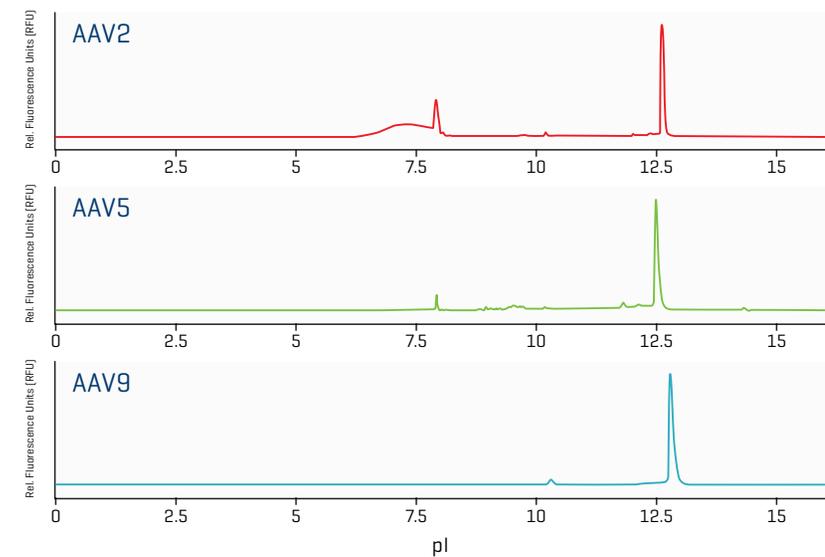


Run multiple applications for characterization of traditional protein therapeutics, next-generation biologics and applications in gene therapy such as empty vs. full capsid analysis and genome integrity analysis of adeno-associated viruses [AAVs].

AAV purity analysis



AAV genome integrity



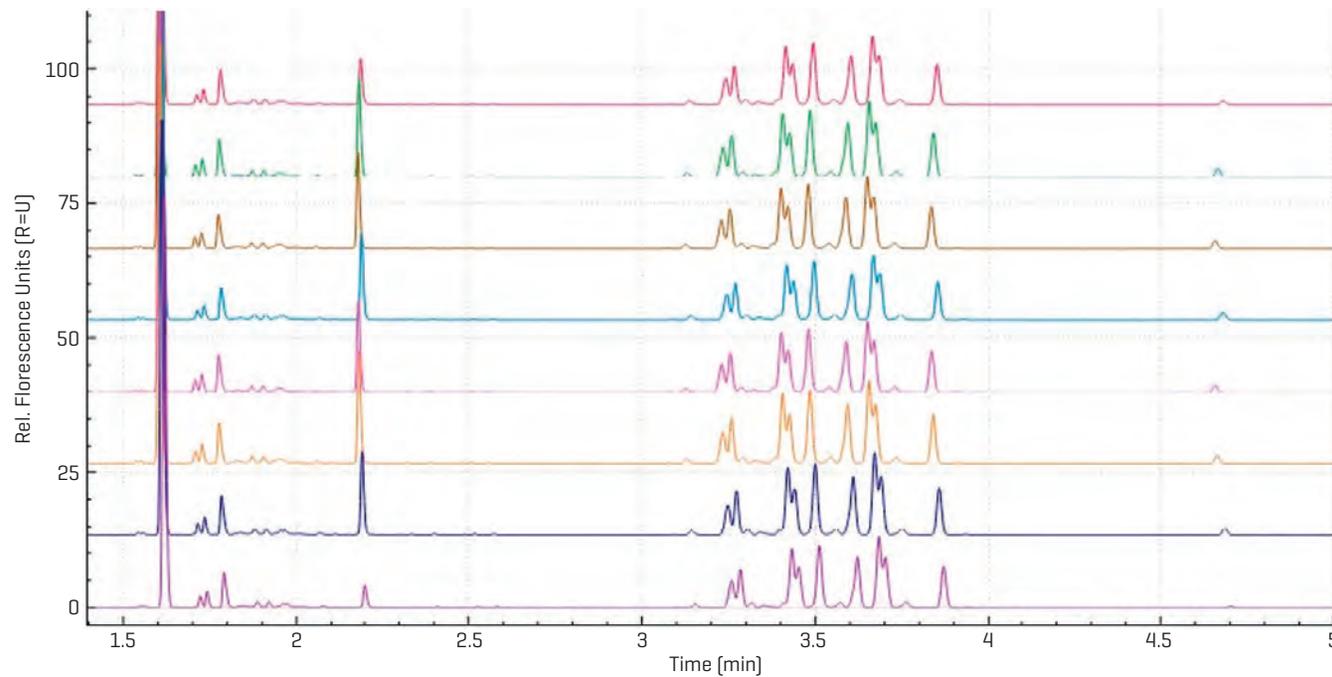
Quickly and easily evaluate AAV purity and genome integrity on the same platform.



Achieve high-throughput glycan profiling

Enable simplified N-linked glycan release, labeling and cleanup in as little as 1 hour and screen-released N-linked glycans in under 5 minutes.

Achieve high-resolution data on a diverse array of N-glycan species with the throughput of 8 parallel capillaries on the BioPhase 8800 system.



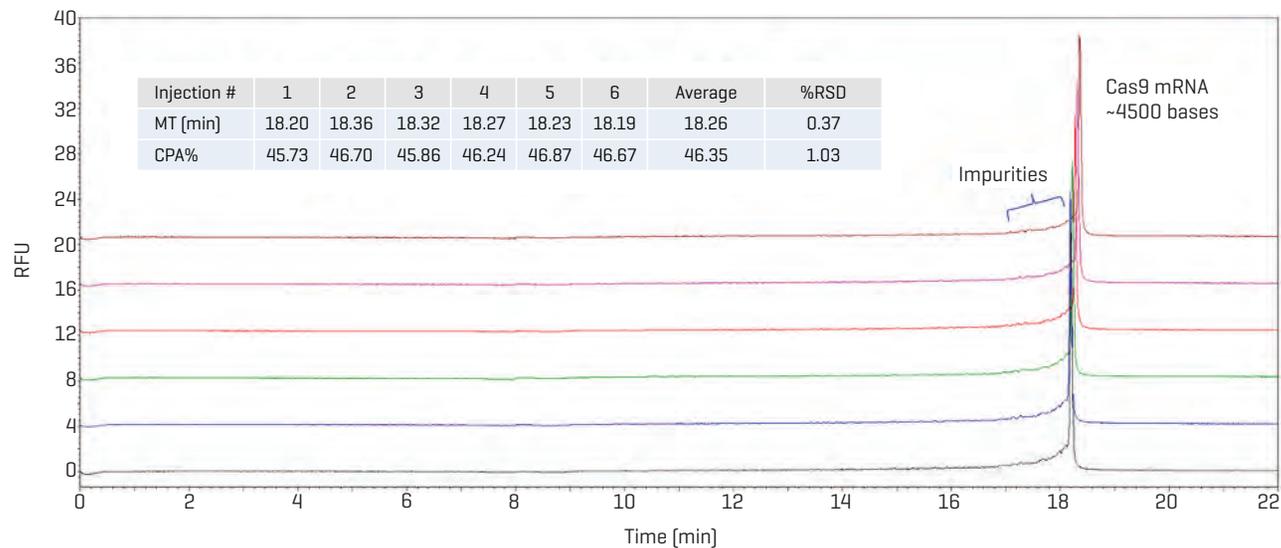
Eight representative electropherograms [from the bottom to the top, capillaries A–H] for a 9-glycan panel separation collected in parallel on the BioPhase 8800 system.



Reduce regulatory risk and maximize method transfer efficiency

Enable direct control of the multi-capillary BioPhase 8800 system through the Empower Chromatography Data System (CDS) in a quality environment while maintaining the experimental flexibility of SCIEX capillary electrophoresis (CE) systems using the BioPhase 8800 driver for Empower software.

Simplify method transfer, system validation and support on an increased number of assays that can be transferred to quality control.



A robust and reproducible Cas9 mRNA purity analysis was conducted using the BioPhase 8800 driver for Empower software 1.3.



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