Characterize With Confidence

Multiple Characterizations and Applications on ONE Platform

CE-SDS • clEF • CZE • Glycans • Nucleic Acid Analysis





Consistent, Compliant Analysis Faster than Ever.

Confidently safeguard the success of your biologics with the SCIEX PA 800 Plus system that fully enables regulatory compliance.

Repeatability Matters

Even small variations in temperature can affect migration time. PA 800 Plus delivers repeatable results with exclusive recirculating liquid coolant to precisely control separation temperature.

Portability Matters

Develop and lock-down methods applicable to QC or regulated environments. PA 800 Plus easily transfers methods using robust, automated assays with proven portability – perfect for global multi-user, multi-instrument organizations.

RAW Data Matters

Data acquired by some technologies is often manipulated. However, only raw, unprocessed data can provide the confidence critical to both you and regulatory agencies for product submission and commercialization. The PA 800 Plus supports 21CFR211.194 compliance by providing raw, unmanipulated data. Regulatory requirements can be easily met where unmanipulated raw data may be required.





With SCIEX, you can characterize any molecule with industry and regulatory accepted CE technology. That's one of the many reasons why virtually all manufacturers of commercial therapeutic monoclonal antibodies

use SCIEX CE.

I can do ALL this

on my PA 800 Plus

- Monoclonal Antibodies
 - > Purity/Heterogeneity with Gold Standard CE-SDS in minutes
 - > Glycan Analysis with award-winning Fast Glycan Technology
 - > Charge Heterogeneity with fast and simple CZE or with hi-res cIEF
- Peptides and Proteins, beyond mAbs
- Plasmid and Nucleic Acid Therapeutics

... with Expert Worldwide Support

Rely on SCIEX to provide world-class global support, delivered consistently across all geographies. Let SCIEX help you develop your next breakthrough therapeutic.

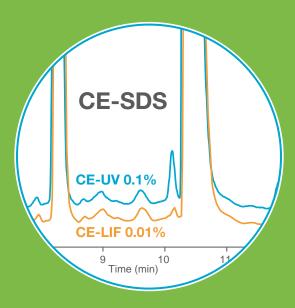
All possible on a single platform biopharma labs depend on.

I can do more...

Accurate • Reliable • Consistent



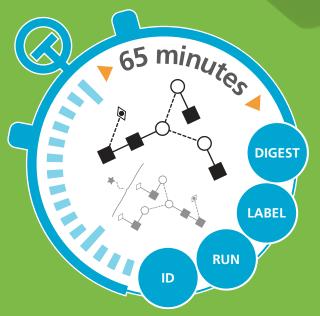
Reduced <15 min. / Non-reduced <18 min.



- Fastest CE-SDS separation time (12-18 minutes)
- Quantitation of impurities down to 0.01%
- Reproducible to 3 or more orders of magnitude sample concentration

Glycan Analysis with Award-Winning Fast Glycan Technology

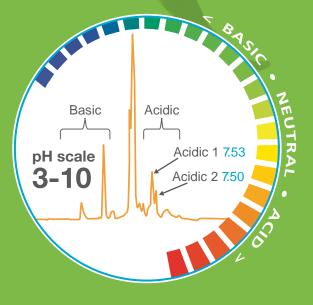
Glycoprotein to glycan ID in 65 min.



- Up to 5X faster than HILIC
- 1-hour sample prep
- Automated Glycan ID
- Cost and resource effective

Protein Charge Heterogeneity with Ultra Hi-res cIEF

pl range and accuracy in 1 run



- High pl accuracy on extreme acidic and basic variants
- High resolution throughout the pl range

with incredible flexibility.

Robust • Fast • Quantitative • Automated • Stress-Free

Charge Variant Analysis by CZE

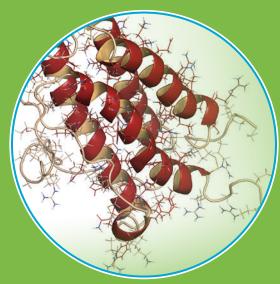
Quick and simple



- Screen charge variants in 10 minutes
- Save time with fast, straightforward sample preparation
- Same method applies to a wide range of pl

Pharmacopoeial Protein Characterization

Beyond monoclonal antibody characterization



- Increased confidence in regulatory submissions using Pharmacopoeia methods
- Automated, quantitative, and sensitive profiling of Erythropoietins (EPO), Somatropin (Human Growth Hormone), Aprotinin using Pharmacopoeia methods

Plasmid/Nucleic Acid Analysis

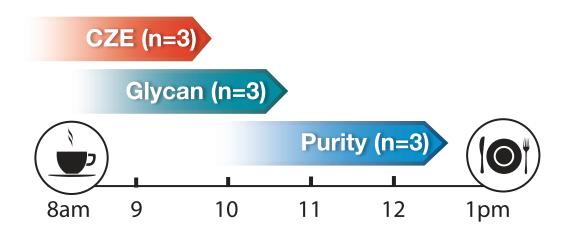
High-resolution and quantitative



- Quantitative plasmid structure analysis
- Oligonucleotide separation down to a single nucleotide
- Ideal for oligonucleotides over 60 bases

I can get the job done...

Quick • Easy • Cost-effective





Flexible Workflows to Help You do More

When you can do it all on a single instrument you know well, you can accomplish a lot before noon.

Software As Easy As 1, 2, 3...

SCIEX software reduces operational complexity so you achieve more faster, for exceptional productivity.



1 Select application

One Cartridge, Multiple Applications

The agile EZ-CE cartridge functions across multiple applications streamlining your workflow and simplifying your inventory process.



2 Load samples and reagents



3 Acquire data

and trust my results.

Industry and Regulatory Proven CE Technology

Extensive intercompany studies have assessed the practical application of CE-SDS, cIEF, CZE and glycan analysis performed across the biopharmaceutical industry, demonstrating the methods are validation-ready.



The Best Technology Application

"This year's winner is SCIEX's high-throughput glycosylation analysis... it is a fully automated sample preparation for ultrafast N-glycosylation analysis of antibody therapeutics." – BioProcess International



USP Referenced

USP 39 NF 34 Chapter <129> recognizes SCIEX CE-SDS as "a sensitive, analytical method for quantitative estimation of product-related impurities such as nonglycosylated molecules, half antibodies, and fragments..."

http://www.usp.org/sites/default/files/usp/document/our-work/biologics/GC-129.pdf#page=9



Held to the Highest Quality Standards

SCIEX Capillary Electrophoresis systems have earned a global reputation for consistently meeting or exceeding our customers' quality expectations. Our commitment to excellence and continuous improvement is reflected in our comprehensive Quality Management System which complies with the requirements of ISO 9001:2008.

Multi-Site N-glycan mapping study 1: Capillary electrophoresis—

http://www.tandfonline.com/doi/ abs/10.1080/19420862.2015.1 107687

laser induced fluorescence.



Evaluation of capillary zone electrophoresis for charge heterogenity testing of monoclonal antibodies.

http://www.sciencedirect.com/ science/article/pii/ S1570023214007764



A series of collaborations

between various pharmaceutical companies and regulatory authorities concerning the analysis of biomolecules using capillary electrophoresis.

http://link.springer.com/article/ 10.1007%2Fs10337-011-2017-3



Intercompany study to evaluate the robustness of capillary isolectric focusing technology for the analysis of monoclonal antibodies.

http://link.springer.com article/ 10.1007%2Fs10337-011-2017-3





Need to Connect to a Mass Spec?

CESI 8000 Plus

With CESI-MS you can effectively integrate high-efficiency capillary electrophoresis (CE) with electrospray ionization (ESI) into a single dynamic process – within the same device.

Supplies and Resources

Items can be ordered at sciex.com/contact-us/ce-ordering

Reagents

Purity	
IgG Purity and Heterogeneity Assay	A10663
SDS-Gel Multipack (4 bottles)	A30341
10 kD Protein Standard	A26487
IgG Control Standard (3-pack)	391734
Purity/Sizing	
SDS-MW Assay Kit/ Purity/Sizing	390953
MW Sizing Standard	A22196
Glycan	
Fast Glycan Labeling and Analysis Kit	B94499PTO
Carbohydrate Labeling and Analysis Assay	477600
N-CHO Capillary	477601
Charge Heterogeneity	
Advanced cIEF Starter Kit	A80976
cIEF Peptide Marker Kit (pl Marker Kit)	A58481
Neutral Capillary	477441

PA 890 Proc. Past Oryean Labeling and Analysis Kit Past

Fast Glycan Labeling and Analysis Kit

Supplies and Accessories

	Universal Vials	A62251
	200 μL Microvials (pkg of 100)	144709
	Universal Vial Caps	A62250
	Electrode Replacement Kit	A47775
	Vial Cap Opener	A95348
	Buffer Vial Tray (36 vials)	A58254
	Buffer Vial Tray (48 vials)	A58255
	nanoVials (pkg of 100)	5043467
	Cartridge Assembly, 30 cm Capillary	A11147
	Blank Cartridge Assembly Kit	144738
	Cartridge Rebuilding Kit	144645
	Cartridge Tubing Kit	144689
	Capillary Coolant (450 mL)	359976
	EZ-CE Capillary Cartridge (CE-SDS, Fast Glycan, CZE)	A55625
	Bare Fused Silica 50 μ M x 67 cm Capillaries 3-pack	338451

Hardware and Consumables are manufactured under ISO 9001:2008



EZ-CE Cartridge

Specifications and Ordering Information

Items can be ordered at sciex.com/contact-us/ce-ordering

System Specifications

Dimensions:

Height: 29.2 in (74.2 cm)
Door Open: 38.8 in (98.6 cm)
Width: 25 in (63.5 cm)

Depth: 28.4 in (72.1 cm)

Weight (uncrated): 188 lbs (85.3 kg) (includes photodiode array detector)

Electrical Requirements:

Voltage: 100 - 240 V; 50/60 Hz

Voltage Range:

1 to 30 kV programmable in 0.1 kV increments

Current Range:

3 to 300 μA programmable in 0.1 μA increments

Pressure Delivery Range:

-5 to +100 psi

Sample Temperature Control:

4 - 60° C

Capillary Temperature Control:

15 - 60° C

System Capacity

Sample Trays:

2 x 96-well plates 2 x 48 universal vials

Buffer Tray:

2 x 36 universal vials

Detection Capability

UV/Vis

200, 214, 254, 280 nm standard filter190 - 600 nm (custom filter option)

Diode Array:

190 - 600 nm (programmable)0.5 - 32 Hz scan collection frequency (programmable)

Laser Induced Fluorescence (LIF):

300 - 700 nm excitation range 350 - 750 nm emission range 0 - 1000 RFU

Source Lasers with 3 mW Power Output:

488 nm solid-state laser (included in A66528)

Ordering Information

A66528

PA 800 Plus

Pharmaceutical Analysis System

Includes separation module with UV, photodiode array and LIF detection; system controller with PA 800 Plus software

A66527

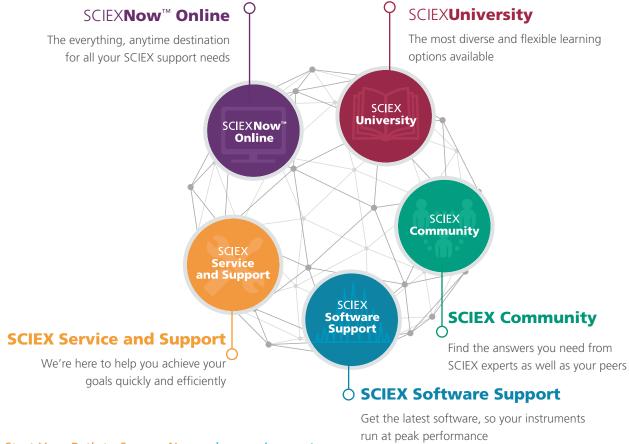
PA 800S Plus Pharmaceutical Analysis System

Includes separation module with photodiode array detection; system controller with PA 800 Plus software



Network Your Way to Success

Discover How the SCIEX Success Network Speeds and Simplifies Your Path to Answers



Start Your Path to Success Now: sciex.com/support

Answers for Science. Knowledge for Life.

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For our office locations please call the division headquarters or refer to our website at www.sciex.com/offices

