Characterize With Confidence

Multiple Characterizations and Applications on ONE Platform

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

The PA 800 Plus
Pharmaceutical Analysis System

SCIEX
Answers for Science.
Knowledge for Life.
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.
Results You Can Trust

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.
Purity/Heterogeneity with Gold Standard CE-SDS
Reduced <15 min. / Non-reduced <18 min.

Glycan Analysis with Award-Winning Fast Glycan Technology
Glycoprotein to glycan ID in 65 min.

Protein Charge Heterogeneity with Ultra Hi-res cIEF
pI range and accuracy in 1 run

- 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
- Up to 5X faster than HILIC
- 1-hour sample prep
- Automated Glycan ID
- Cost and resource effective
- High pI accuracy on extreme acidic and basic variants
- High resolution throughout the pI range
with incredible flexibility.

Robust • Fast • Quantitative • Automated • Stress-Free

Charge Variant Analysis by CZE
Quick and simple

Pharmacopoeial Protein Characterization
Beyond monoclonal antibody characterization

Plasmid/Nucleic Acid Analysis
High-resolution and quantitative

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

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

- 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.

One Cartridge, Multiple Applications
The agile EZ-CE cartridge functions across multiple applications streamlining your workflow and simplifying your inventory process.

Software As Easy As 1, 2, 3...
SCIEX software reduces operational complexity so you achieve more faster, for exceptional productivity.
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...”


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.
# Supplies and Resources

Items can be ordered at [sciex.com/contact-us/ce-ordering](http://sciex.com/contact-us/ce-ordering)

## Reagents

<table>
<thead>
<tr>
<th>Category</th>
<th>Item Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Purity</td>
<td>IgG Purity and Heterogeneity Assay</td>
<td>A10663</td>
</tr>
<tr>
<td></td>
<td>SDS-Gel Multipack (4 bottles)</td>
<td>A30341</td>
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<tr>
<td></td>
<td>10 kD Protein Standard</td>
<td>A26487</td>
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<td></td>
<td>IgG Control Standard (3-pack)</td>
<td>391734</td>
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<tr>
<td>Purity/Sizing</td>
<td>SDS-MW Assay Kit/ Purity/Sizing</td>
<td>390953</td>
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<td>MW Sizing Standard</td>
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<td>Glycan</td>
<td>Fast Glycan Labeling and Analysis Kit</td>
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<td>Carbohydrate Labeling and Analysis Assay</td>
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<td>N-CHO Capillary</td>
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<td>Charge Heterogeneity</td>
<td>Advanced cIEF Starter Kit</td>
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<td></td>
<td>cIEF Peptide Marker Kit (pI Marker Kit)</td>
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<td></td>
<td>Neutral Capillary</td>
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## Supplies and Accessories

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<tr>
<th>Category</th>
<th>Item Description</th>
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<tbody>
<tr>
<td>Universal Vials</td>
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<td>A62251</td>
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<td>200 μL Microvials (pkg of 100)</td>
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<tr>
<td>Universal Vial Caps</td>
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<td>Electrode Replacement Kit</td>
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<tr>
<td>Vial Cap Opener</td>
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<tr>
<td>Buffer Vial Tray (36 vials)</td>
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<td>A58254</td>
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<tr>
<td>Buffer Vial Tray (48 vials)</td>
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<td>A58255</td>
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<tr>
<td>nanoVials (pkg of 100)</td>
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<tr>
<td>Cartridge Assembly, 30 cm Capillary</td>
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<td>A11147</td>
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<td>Blank Cartridge Assembly Kit</td>
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<td>Cartridge Rebuilding Kit</td>
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<tr>
<td>Cartridge Tubing Kit</td>
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<td>Capillary Coolant (450 mL)</td>
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<tr>
<td>EZ-CE Capillary Cartridge (CE-SDS, Fast Glycan, CZE)</td>
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<tr>
<td>Bare Fused Silica 50 μM x 67 cm Capillaries 3-pack</td>
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<td>338451</td>
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</tbody>
</table>

*Hardware and Consumables are manufactured under ISO 9001:2008*

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**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.*
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 filter
190 - 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

SCIEXNow™ Online
The everything, anytime destination for all your SCIEX support needs

SCIEXUniversity
The most diverse and flexible learning options available

SCIEX Service and Support
We’re here to help you achieve your goals quickly and efficiently

SCIEX Community
Find the answers you need from SCIEX experts as well as your peers

SCIEX Software Support
Get the latest software, so your instruments run at peak performance

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

Answers for Science. Knowledge for Life.