One-stop cIEF and CE-SDS.

One-day method dev.

Results in a snap. FDA, PDQ.

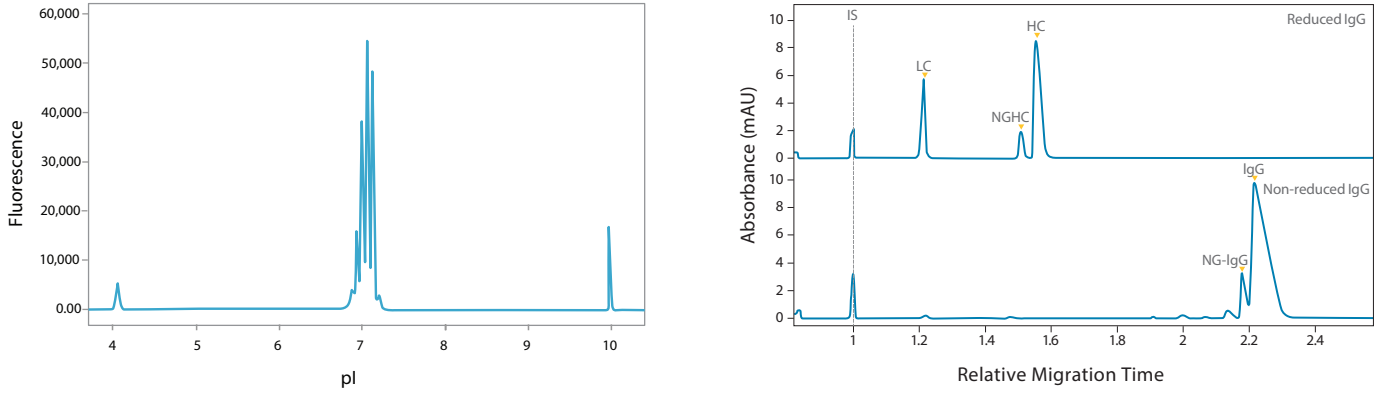
proteinsimple®
a bio-techne brand

Meet Maurice™. He's a real problem solver. Need CE-SDS and cIEF info on mAbs, ADCs and vaccines? Done. He'll even up you one and get data on their variants. So all that purity, identity and charge heterogeneity data you need for regulatory agencies on your biologic? Maurice hands it over faster than any technique out there. We're talking FDA, PDQ!


proteinsimple
Maurice

# He’s fluent in cIEF and CE-SDS.

Maurice takes ciEF up a notch, and CE-SDS doesn't faze him a bit! You’ll get pI and charge heterogeneity data in less than 10 minutes flat — with the added bonus of same-time absorbance and native fluorescence for sensitivity down to 0.7 µg/mL. His size apps give you the high res and wide molecular weight range you need and they’re done in 35 minutes.

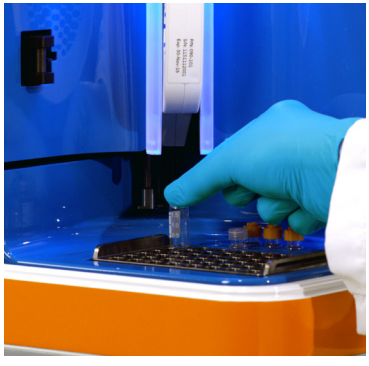



Charge profile of mAb. 0.25 mg/mL mAb prepared with 4% 3–10 Pharmalyte, 10 mM arginine, iminodiacteic acid (IDA) and 2 M urea, pI markers 4.05 and 9.99. Pre-focused at 1500 V for 1 min followed by focusing for 7 mins at 3000 V (left). Maurice IgG size standard (1 mg/mL) denatured for 10 minutes at 70 °C under reducing (BME) or non-reducing (IAM) conditions. Reduced IgG was separated for 25 mins, non-reduced IgG was separated for 35 mins (right).

# He makes it easy.

Maurice makes everything simple. Just pop in a ready-to-go cartridge, drop in your sample vials or a 96-well plate, and hit start — he does the rest! Handling toxic or sensitive samples like ADCs is a breeze with his on-board sample prep. Switch between both applications as much as you want. There's no setup or maintenance needed. Did we mention there's no cross-contamination either?


1



2

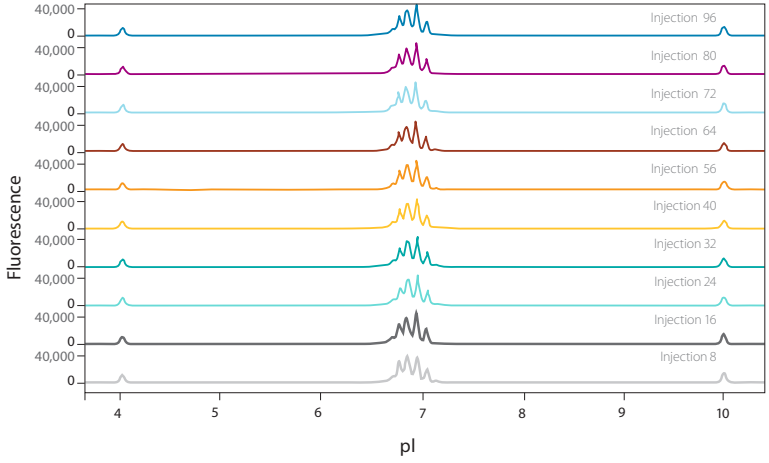

3

# He’s a timesaver.

Maurice helps you develop assays fast so you get to real results even faster. Your cIEF and CE-SDS methods are done in a day. He’ll knock weeks or even months off your development timelines, and you do it all on one system to boot. The icing? You can develop platform methods and use them for multiple molecules too.

# He’s dependable.

Get CVs under 4% day in and day out. Your data is reliable no matter what — across samples, assays, users, instruments or labs. Not to mention Maurice analyzes your data automatically and tweets you when results are ready! Plus, he’s got all the tools you need for 21 CFR Part 11 compliance and traceability.




cIEF assay performance over 100 injections with peak area CVs consistently less than 4%. 0.25 mg/mL mAb prepared with 4% 3–10 Pharmalyte, 10 mM arginine and iminodiacteic acid (IDA), pI markers 4.05 and 9.99.

# Specifications

| SYSTEM | MAURICE | MAURICE C. | MAURICE S. | ICE3 |
|---|---|---|---|---|
| cIEF Charge Application | ● | ● | | ● |
| CE-SDS Size Application | ● | | ● | |
| Absorbance Detection | ● | ● | ● | ● |
| Fluorescence Detection | ● | ● | | |
| Onboard Mixing for Sample Prep | ● | ● | | ●* |

| DESCRIPTION | cIEF SPECIFICATION | CE-SDS SPECIFICATION |
|---|---|---|
| Minimum Sample Volume | 50 µL | 50 µL |
| Sample Delivery | Vacuum | Electrokinetic |
| Typical Separation Time | 6–10 min (molecule-dependent) | Reduced IgG: 25 min<br>Non-reduced IgG: 35 min |
| Detection Capability | UV Absorbance at 280 nm<br>Fluorescence: Ex 280 nm, Em 320–450 nm | UV Absorbance at 220 nm |
| Typical Voltage | Pre-focusing: 1500 V, focusing: 3000 V | Separation: 5750 V |
| Sample Injections per Cartridge | 100 | 100 |
| Maximum Sample Injections per Batch | 100 | 48 |
| pI/Size Range | 2.85–10.45 | 10–240 kDa |
| pI/Sizing CV | 1% | ≤2% |
| CV for Peaks >10% Composition | ≤5% (Intra-batch), ≤6% (Inter-batch) | N/A |
| Relative Migration Time CV | N/A | <1% for reduced IgG |
| pI/Sizing Resolution | 0.05 pI units (for wide range 3–10 ampholyte) | ≥1.5 for NGHC/HC IgG Standard |
| Dynamic Range | 2 logs | 2 logs |
| Linearity | >0.995 | >0.995 |
| Sensitivity (LOD) | 0.7 µg/mL (Native fluorescence)<br>3.0 µg/mL (Absorbance)<br>(Values based on a monoclonal antibody) | 0.3 µg/mL<br>(Value based on Internal Standard) |
| Sample Tray Options | 96-well plates or 48 vials | |
| Power | 100 V–240 V (AC), 50/60 Hz, 500 W | |
| Voltage Range | 0–6500 V | |
| Temperature Control Range | 4–25 °C | |

* with Alcott Autosampler

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