

Maurice® Datasheet



Meet Maurice

Need cIEF and CE-SDS data for your biologics? Maurice does it all – mAbs, ADCs, fusion proteins, peptides and vaccines. He'll even give you data on their variants. Just pop in one of his ready-to-go cartridges, drop in your sample vials or a 96-well plate, and hit start. Switch between cIEF and CE-SDS applications as often as you want – there's no setup, maintenance or cross-contamination!

One-stop cIEF and CE-SDS One-day Method Development

One Instrument for Discovery to Release

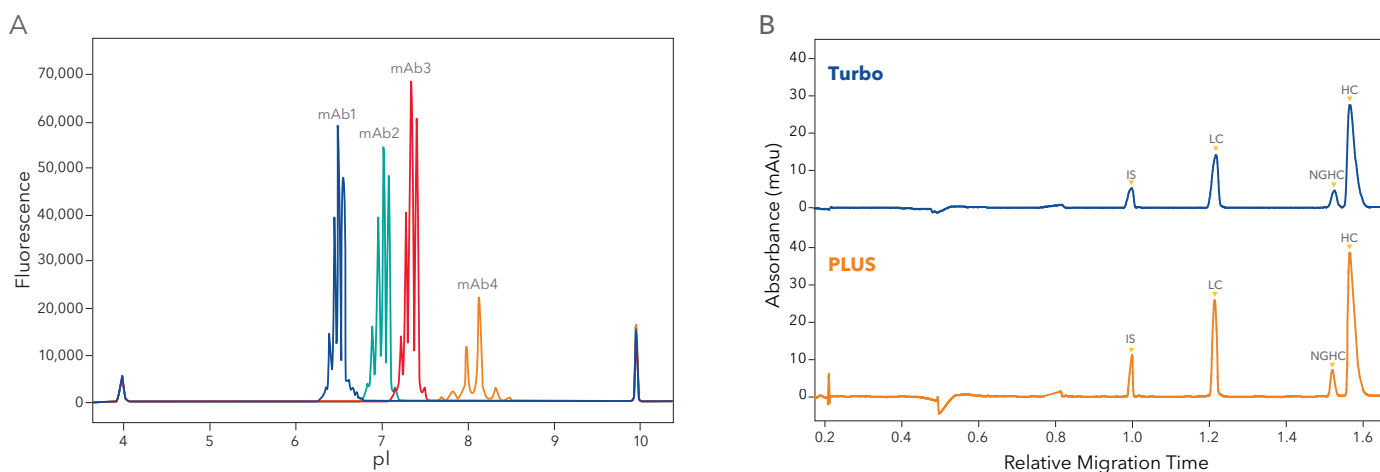


FIGURE 1. (A) Charge profiles for four different mAbs using a platform method, 0.15–0.25 mg/mL mAb prepared with 2 M urea, 4% 3–10 Pharmalyte, 10 mM arginine and iminodiacetic acid, pI markers 4.05 and 9.99. **(B)** Purity analysis of Maurice IgG size standard under reduced conditions using the Turbo CE-SDS and CE-SDS PLUS cartridges, respectively.

Two Ways to Get Data

Maurice gives you IgG purity data in just 5.5 minutes, and identity and charge heterogeneity data in less than 10 minutes flat! So you can develop your cIEF (in native

fluorescence and absorbance mode) or CE-SDS methods in a day. Yep, even platform methods for multiple molecules! You'll get the hands-down most reliable and reproducible data day in and day out.

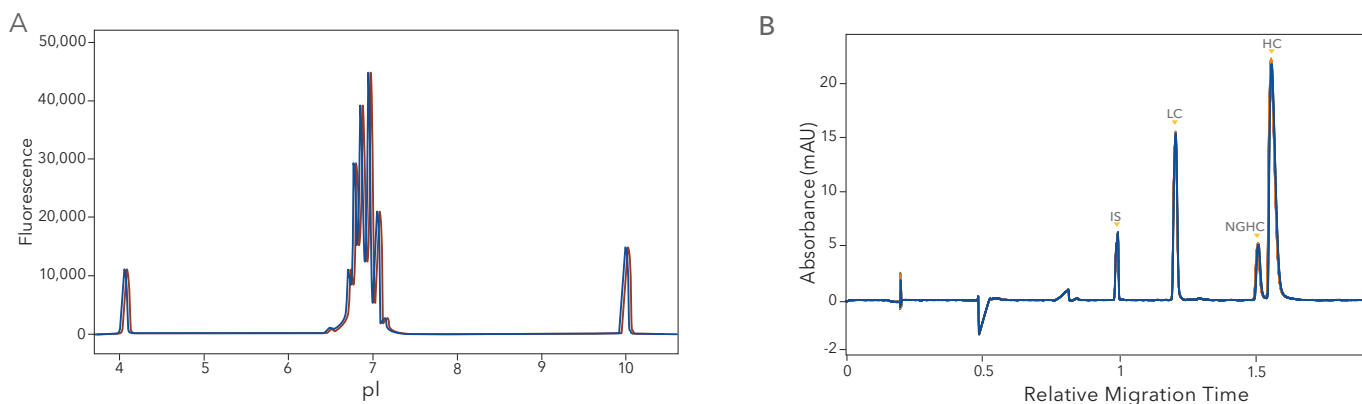


FIGURE 2. (A) cIEF separation profiles of over 100 injections with peak area CVs consistently less than 4%. 0.25 mg/mL mAb prepared with 4% 3-10 Pharmalyte, 10 mM arginine and iminodiacetic acid, pI markers 4.05 and 9.99. (B) Two alternating replicates of IgG size standards at 1 mg/mL over 24 consecutive injections. Samples were spiked with Internal Standard, reduced and denatured, then separated for 25 minutes. Data collected with the CE-SDS PLUS system.

Specifications

Description	cIEF Specifications	CE-SDS PLUS Specifications	Turbo CE-SDS Specifications
Minimum Sample Volume	50 μ L	50 μ L	100 μ L
Sample Delivery	Vacuum	Electrokinetic	Electrokinetic
Typical Separation Time	6-10 minutes (molecule-dependent)	Reduced IgG: 25 minutes; Non-reduced IgG: 35 minutes	Reduced: 5.5 minutes; Non-reduced: 8 minutes
Detection Capability	UV Absorbance at 280 nm Fluorescence: Ex 280 nm, Em 320-450 nm	UV Absorbance at 220 nm	UV Abs at 220 nm
Typical Voltage	Pre-focusing: 1500 V, focusing: 3000 V	Separation: 5750 V	Separation: 4200V
Sample Injections per Cartridge	100 guaranteed, 200 maximum, maximum 20 batches	100 guaranteed, 500 maximum, maximum 25 batches	100 guaranteed, maximum 25 batches
Maximum Sample Injections per Batch	100	48	96
pI/Size Range	2.85-10.45	10-270 kDa	10-270 kDa
pI/Sizing CV	1%	$\leq 2\%$	$< 2\%$
CV for Peaks $> 10\%$ Composition	$\leq 5\%$ (Intra-batch), $\leq 6\%$ (Inter-batch)	N/A	$< 10\%$
Relative Migration Time CV	N/A	$< 1\%$ for reduced IgG	$< 5\%$
pI/Sizing Resolution	0.05 pI units (for wide range 3-10 ampholytes)	≥ 1.5 for NGHC/HC IgG Standard	≥ 1.0 for NGHC/HC IgG Standard
Dynamic Range	2 logs	2 logs	2 logs
Linearity	> 0.995	> 0.995	> 0.995
Sensitivity (LOD)	0.7 μ g/mL (Native fluorescence); 3.0 μ g/mL (Absorbance) (values based on a mAb)	0.3 μ g/mL (value based on Internal Standard)	0.6 μ g/mL (value based on Internal Standard)
Sample Tray Options	96-well plates or 48 vials		
Dimensions	44 cm H x 42 cm W x 61 cm D		
Weight	46 kg (100 lb)		

Maurice: part #090-000

biotechne®

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