

is now part of the

bietechne[®] family of companies

Innovative Protein Analysis Tools

Single-Cell WB

Simple Western

Simple Plex

iCE

MFI

Is my sample heterogeneous?

Exactly how much protein is present?

Which biomarkers define my biology?

Is my biologic drug pure?

Is my biologic drug safe ?















Milo: The Single-Cell Western System

Western-based protein detection

Heterogeneity information

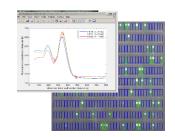


- +1,000 WB at a single cell level / run
- Detect up to 4 proteins per cell
- 4-6 hour workflow (3-4 hr hands-free time)
- Uses all antibodies (Western, Flow...)

scWest Kits



Scout Software

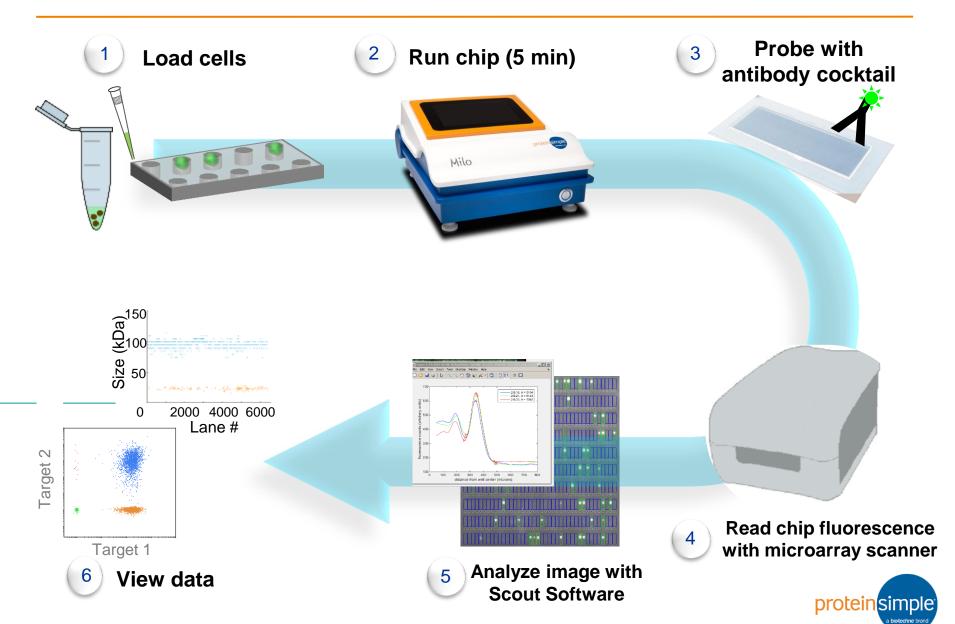


Antibodies





Milo is Fast and Simple to Use



Meet Wes – Detect & Quantitate Proteins

Capillary Electrophoresis System with Immuno-detection

- More sensitive than traditional Western
 - Use as little as 0.2 μg/μl protein in 3 μl/well
- 3 hour run time (25 samples)
 - Run up to 75 samples/day
- Completely automated run
- Quantitative & reproducible data (CV<15%)
- 30 minute workflow
 - Pre-filled plate
 - Disposable capillary cartridge
 - Easier to use
 - No messy waste to clean up



Assay set up is easy

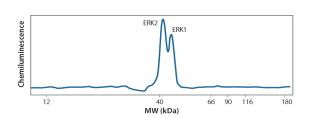






Prepare & Load samples

Insert cartridge/Plate + Press start





Get Results automatically

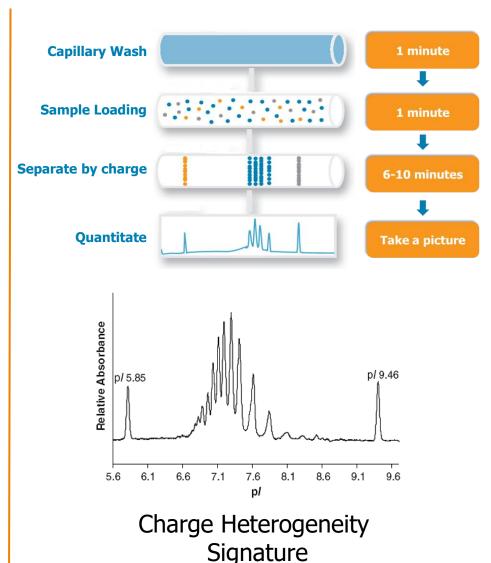
2-40 kDa/12-230 kDa/66-440 kDa

iCE & Maurice — Is My Drug Pure?

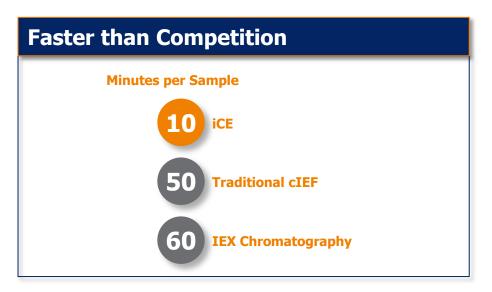
iCIEF (Imaged Capillary IsoElectric-Focusing)

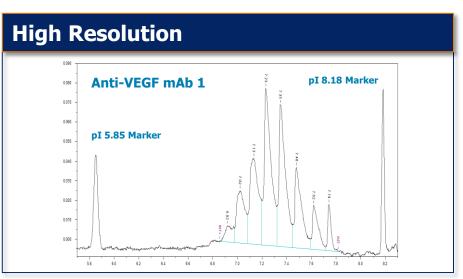


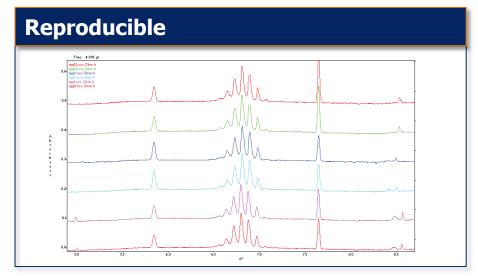
- Must monitor charge heterogeneity to ensure product quality and consistency
- Required by US and EU regulator agencies
- Charge signature impacted by:
 - Physical or chemical alteration, Fragmentation, Oxidation
- Used in:
 - Cell culture development, Formulation development, Process development, QC

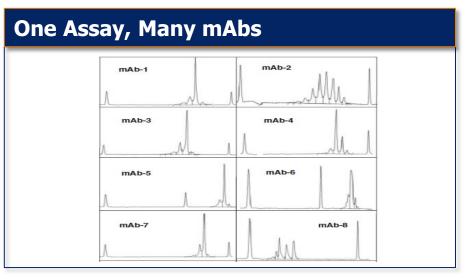


iCE & Maurice - Have Real Benefits

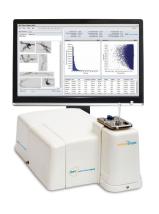






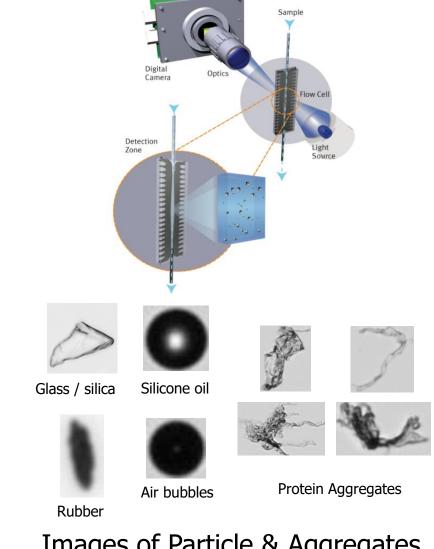


MFI (Micro-Flow Imaging) -Is My Drug Aggregated?





- Concern over immunogenic responses to protein aggregates has created pressure from the FDA to characterize particles
- Looking for
 - Protein aggregates, Air bubbles, Silicone oil droplets and other Contaminants
- Monitor and characterize
 - Size, Shape, Count and Concentration



Images of Particle & Aggregates

MFI Advantage is Imaging

