



Agilent: Supporting Biomolecule Analysis

Steve Siembieda
Product Marketing Director
Parallel CE Instruments

Agilent: Who We Are

A global & collaborative company providing instruments, reagents, software solutions and services to life science, analytical and research labs

Chromatography



Mass spectrometry



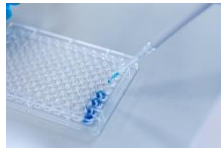
Spectroscopy



Automation



Genomics



Nucleic acid synthesis



Biomolecule
Sample quality
control



Cell Analysis



Committed to

Accelerating the
advancement of science

Providing **complete,
integrated solutions**

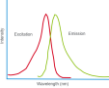
Championing
your success

Parallel Capillary Electrophoresis Instruments Since 1998

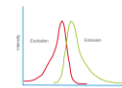
Nucleic acids



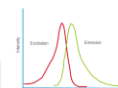
Fragment Analyzer



Femto Pulse



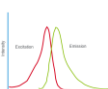
ZAG DNA Analyzer



Proteins



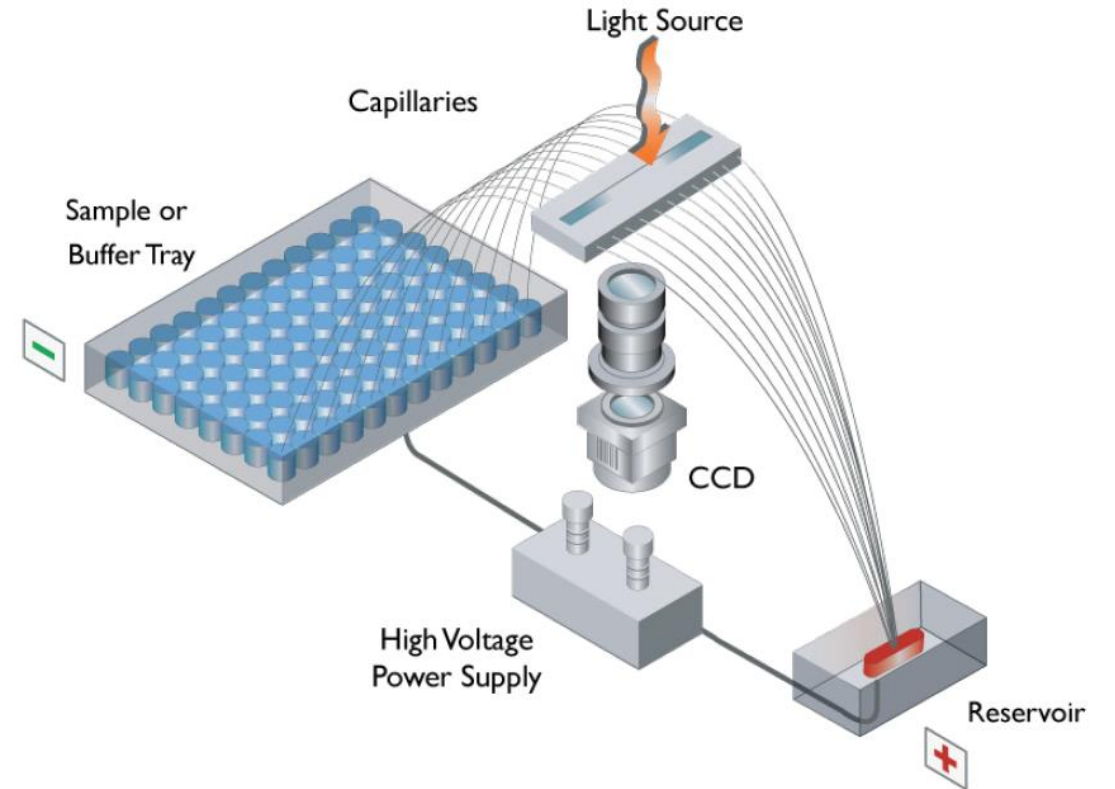
ProteoAnalyzer



Oligonucleotides



Oligo Pro II



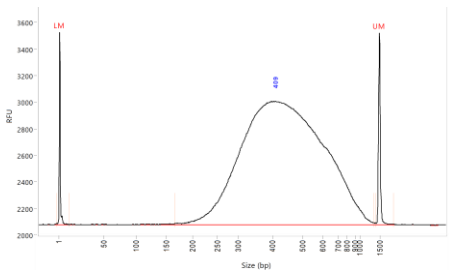
Fragment Analyzer for Nucleic Acid Analysis



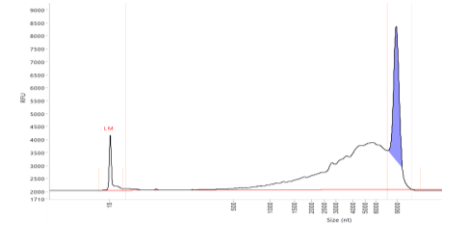
Fragment Analyzer systems - in use since 2011

- 3 benchtop models: separate 12, 48, or 96 samples at a time
- Fluorescent based detection
- Validated kits for IVT mRNA methods, DNA fragments, supercoiled plasmids, and NGS workflows
- High resolution and high sensitivity
- IQ/OQ services and enhanced security features
- Use in R&D, production and product release

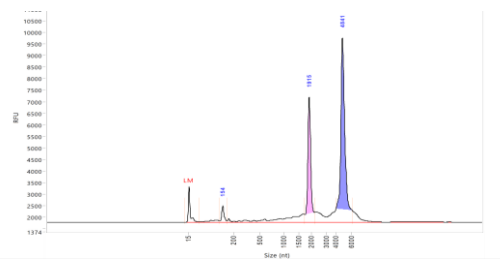
Analyze a Wide Range of Sample Types



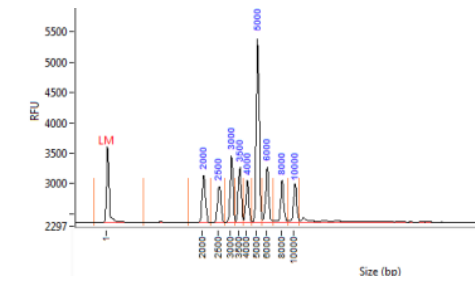
NGS library



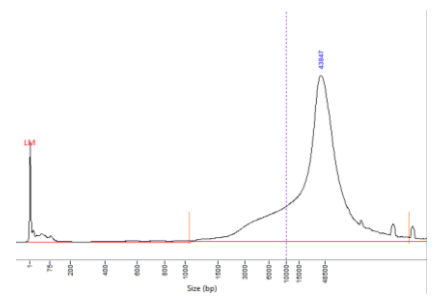
IVT mRNA



Total RNA

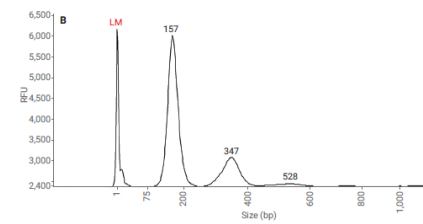
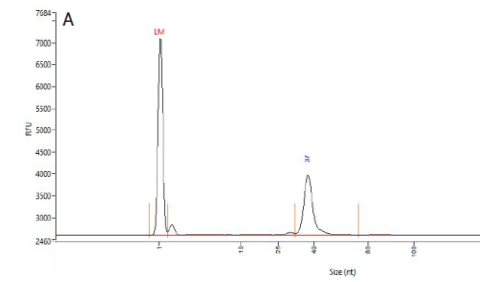


Plasmids



gDNA

PolyA tail



cfDNA

IVT mRNA Analysis

- First company to release an IVT mRNA QC assay – released in 2015 and developed with pharma company
- High level of expertise and knowledge to support this application
- Numerous partnerships with companies producing IVT mRNAs prior to and through the Covid19 pandemic
- The Fragment Analyzer systems can QC all steps in production process
 - Ready to go reagent kits with validated methods
 - Standard and high sensitivity kit available to analyze IVT mRNA as large as 10,000 nt
 - Analyze polyA tail
 - Separation of template DNA prior to transcription
 - Application notes available



ProteoAnalyzer for Protein Analysis – New in 2024

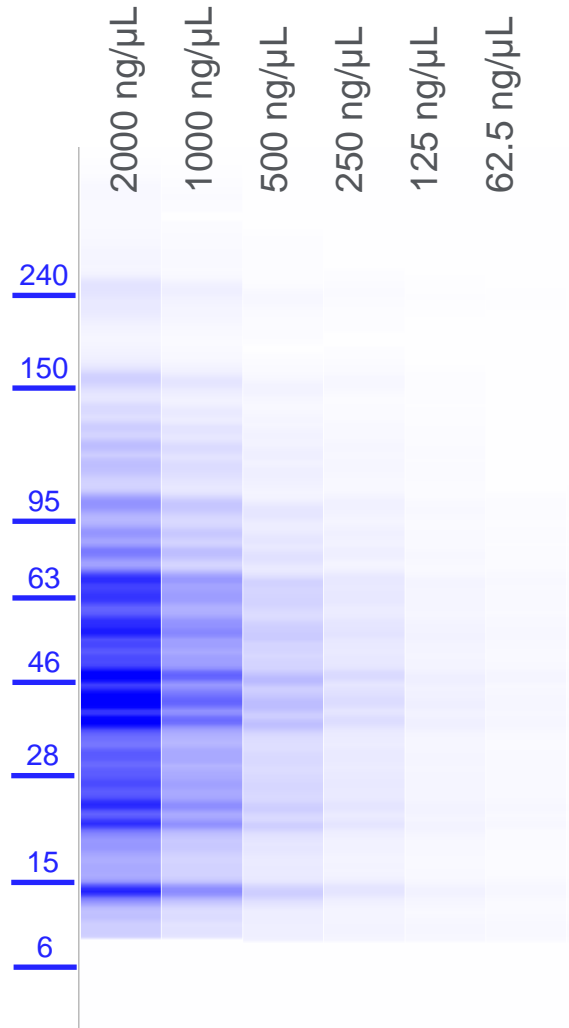


ProteoAnalyzer

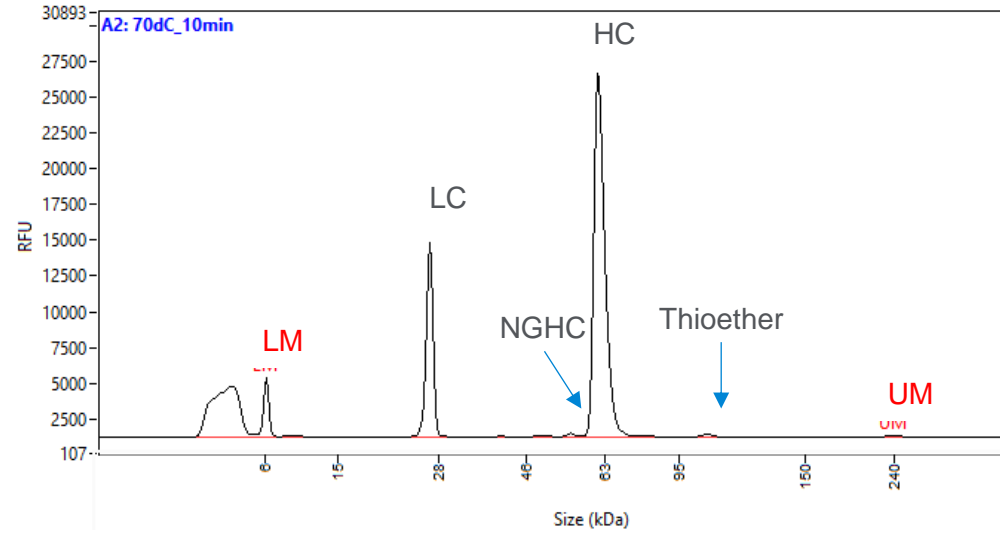
- 1 benchtop model: separate 12 samples in 30 minutes
- Prepare sample in 10 minutes
- Broad protein sizing range
 - 10 – 240 kDa
- Wide dynamic range
 - 2 – 2000ng/ μ L (BSA in PBS)
- Analyze a variety of samples including
 - reduced and non-reduced samples,
 - monoclonal antibodies
 - challenging samples such as crude cell lysates

Confidently Measure a Variety of Sample Types

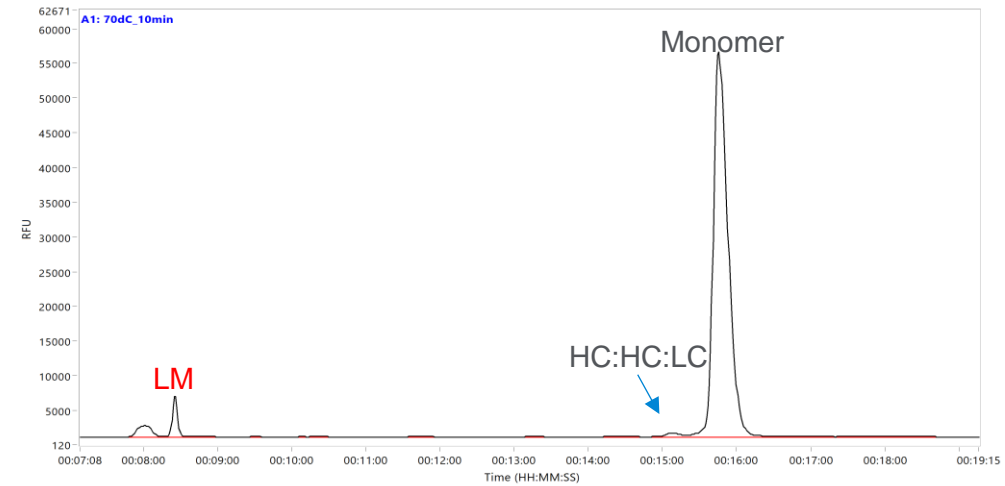
Crude liver lysates



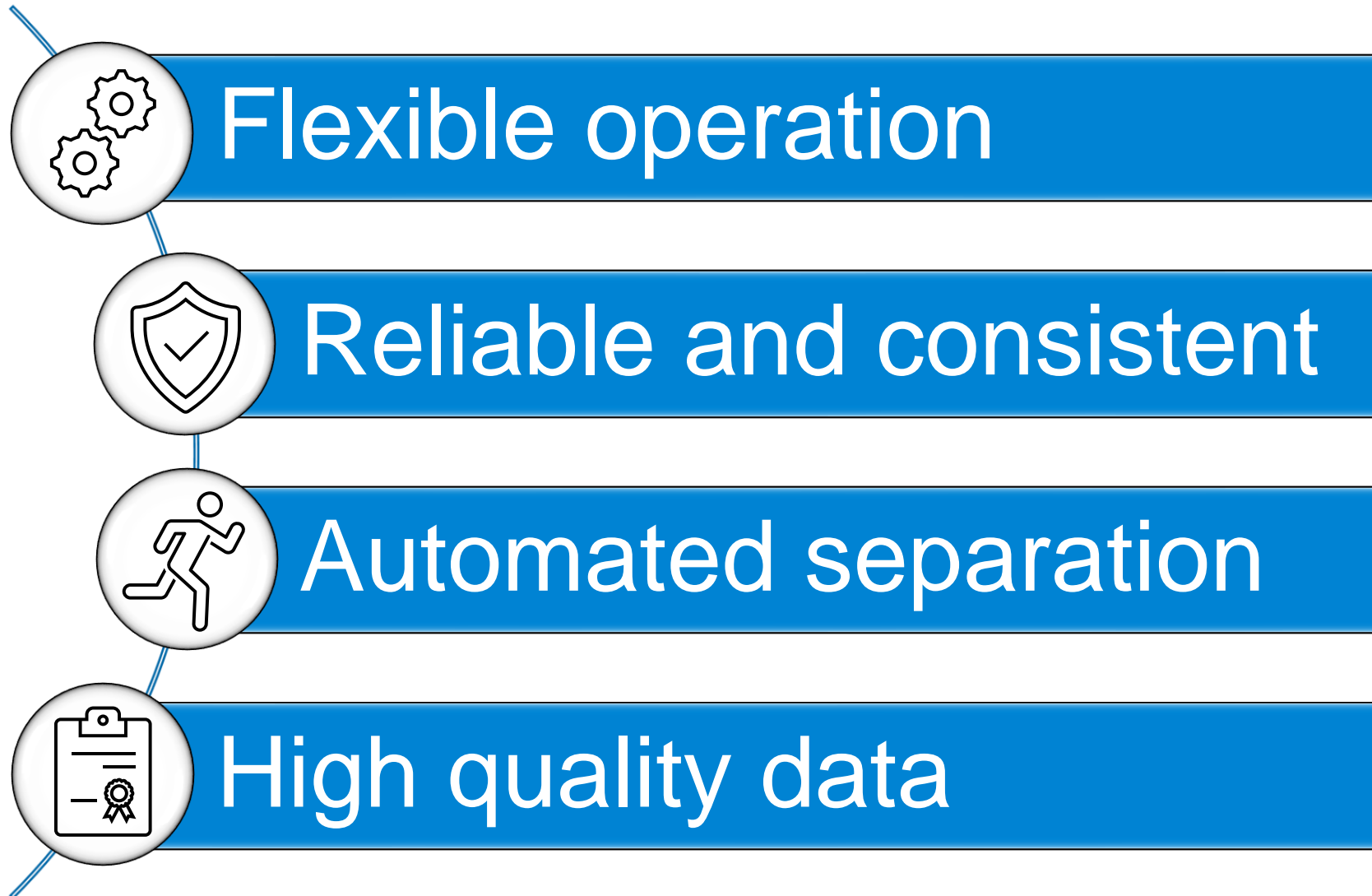
Reduced mAb



Non-reduced mAb



Agilent Parallel Capillary Electrophoresis Systems



Breakfast Technical Seminar - Tuesday

Shauna Salem

Analytical R&D Scientist at Pfizer

Catalina 1 at 7:45 – 8:15am

Breakfast will be served until 8:30

