



Technische
Universität
Braunschweig

Wätsig et al.
Institut für Medizinische und
Pharmazeutische Chemie



Analysis of Proteins with Capillary Gel Electrophoresis Fabulous Precision

Cianciulli, C.; Wätsig, H.

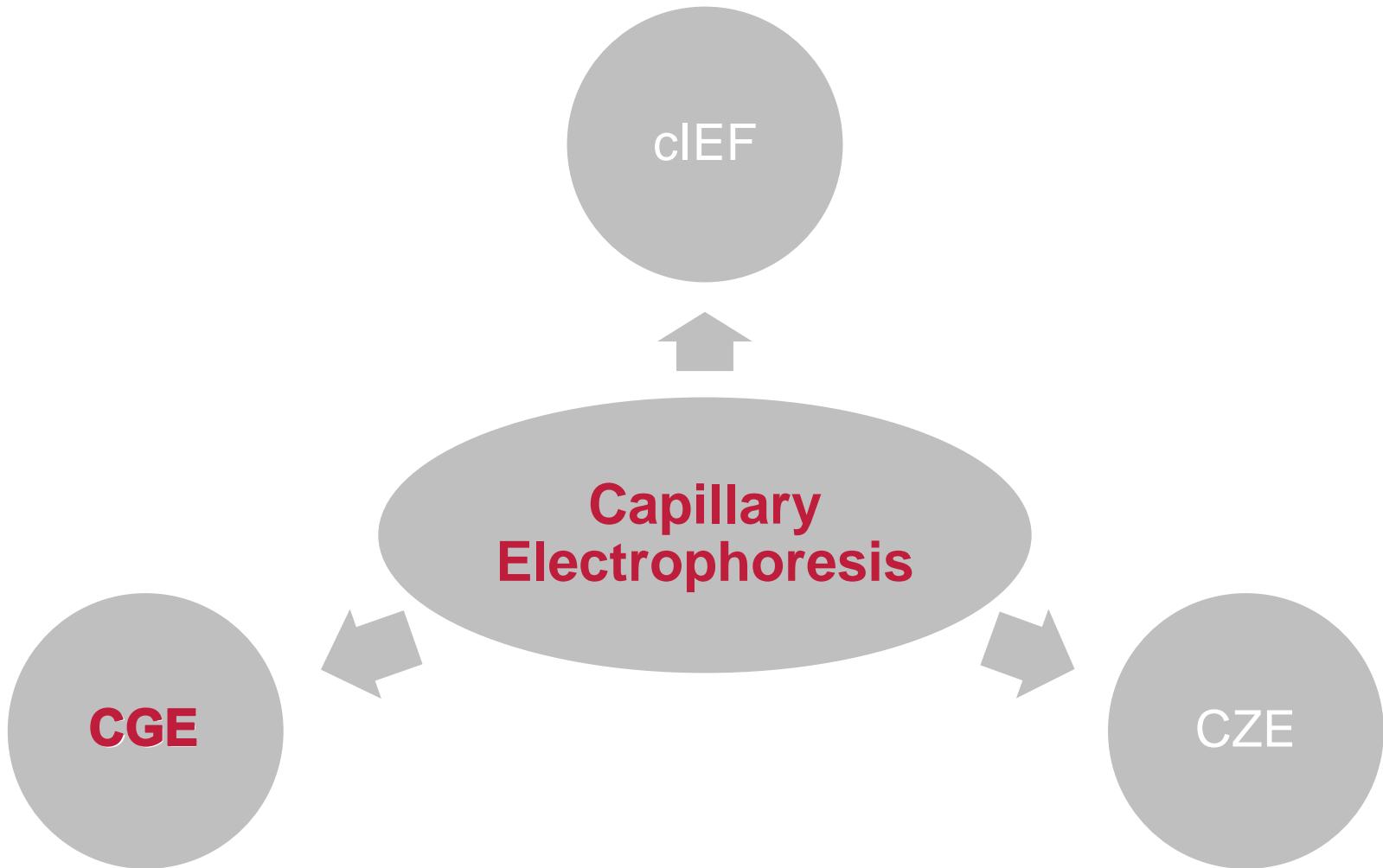
Innsbruck, Tuesday, September 20th

Quantitative Protein Analysis

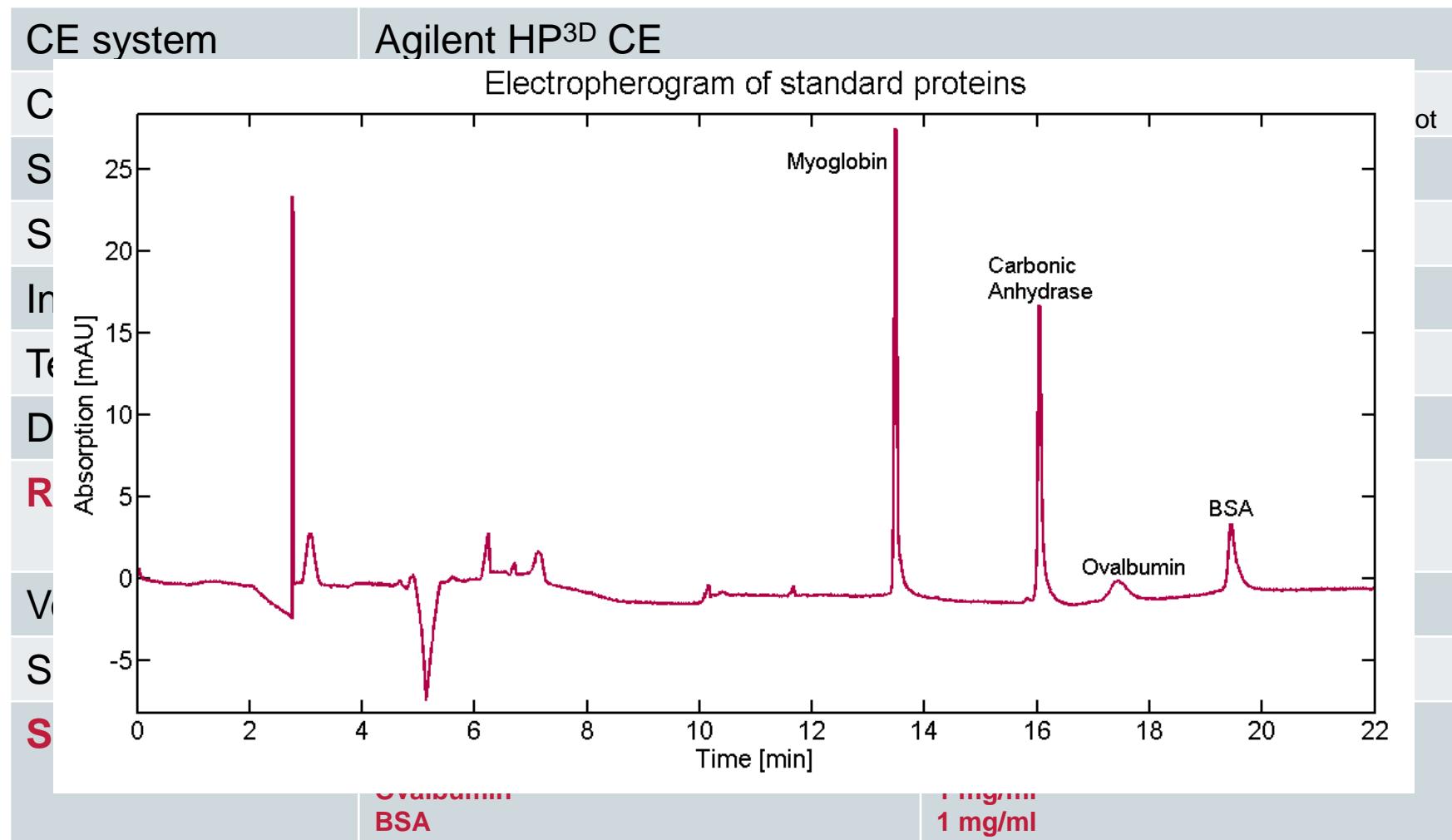
Capillary
Electrophoresis

Protein
Quantitation

Quantitative Protein Analysis

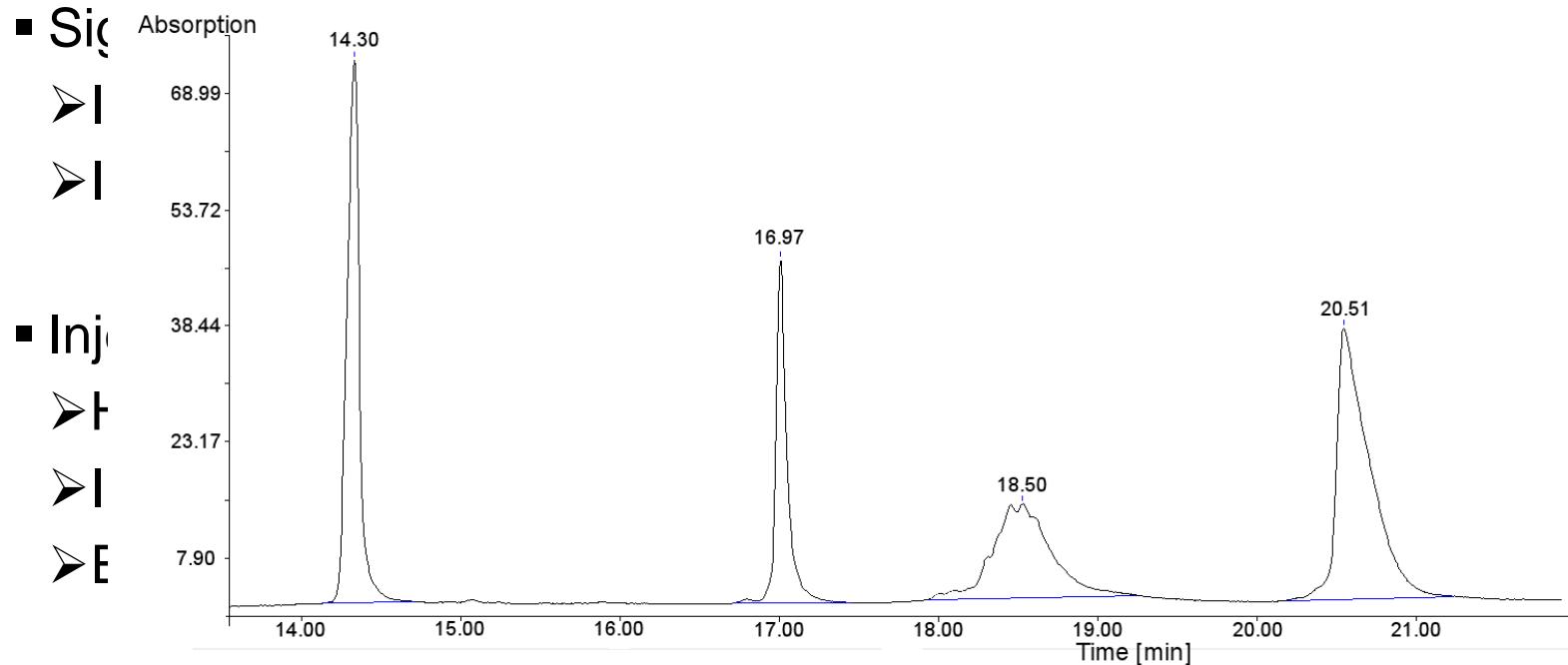


Application note



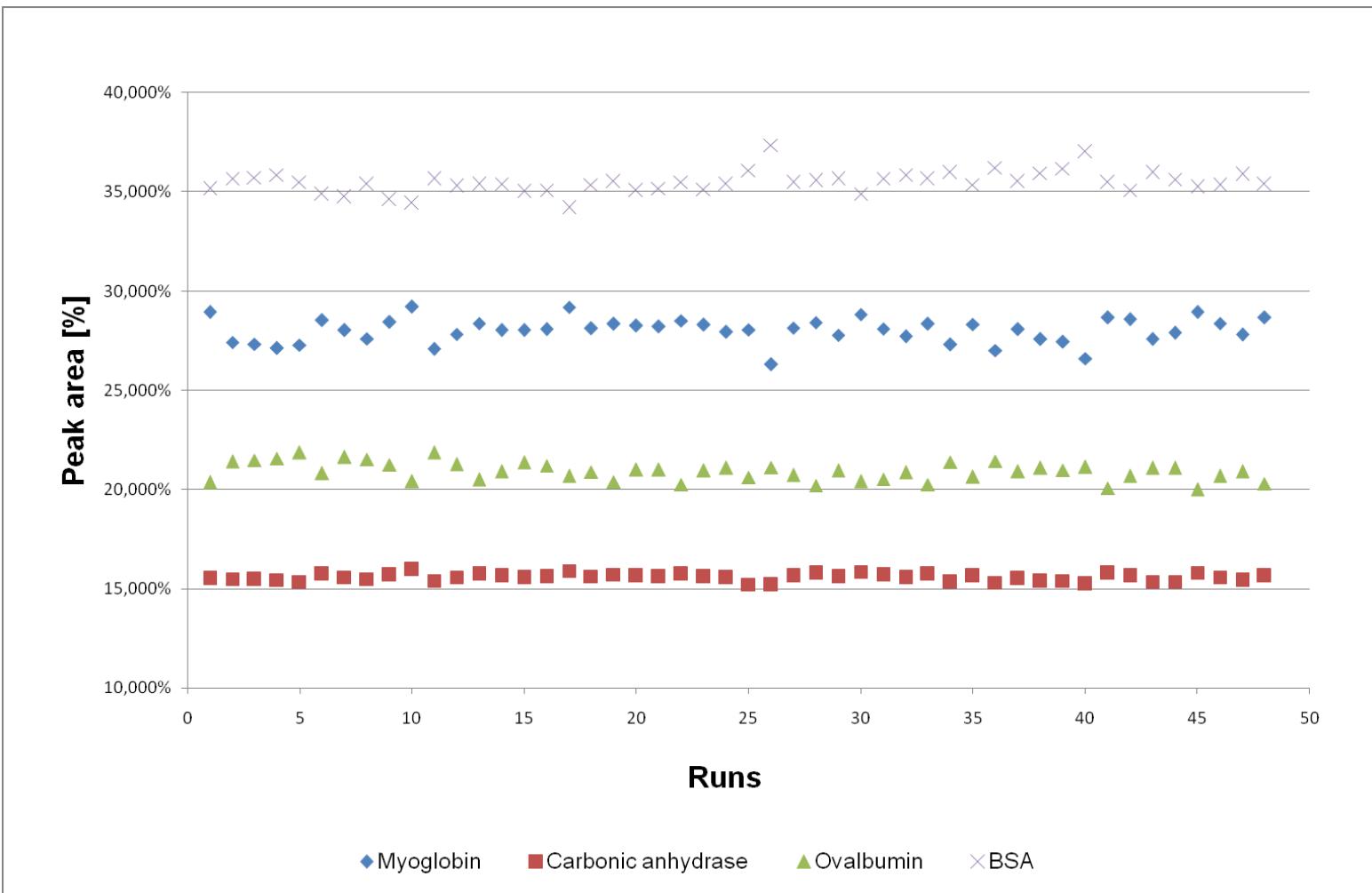
Optimisation

- Reasons for the poor RSD%



¹ Schirm, B., Wätzig, H., *Chromatographia* 1998, **48**, 331-346

Optimisation – long series



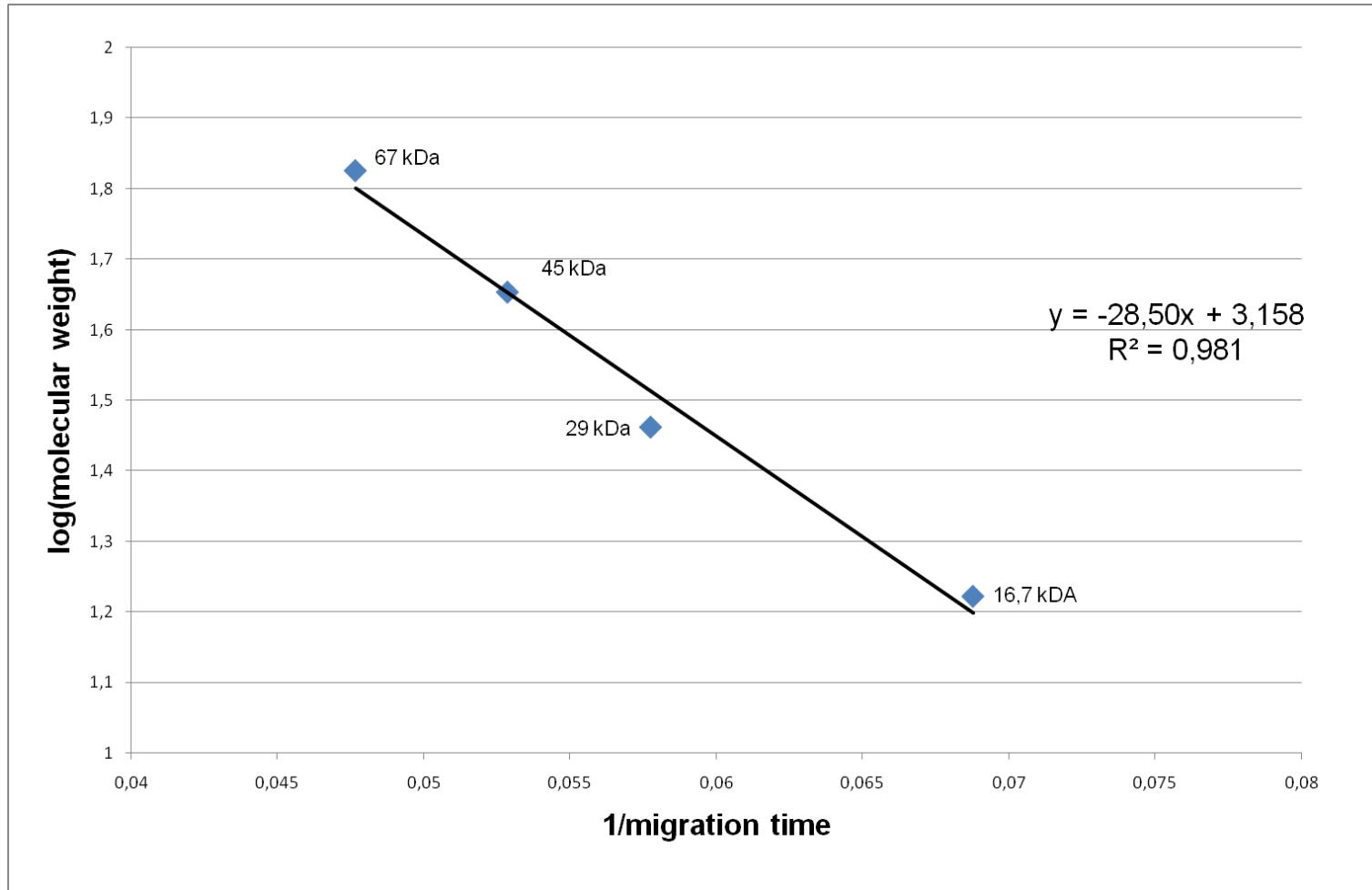
Comparision of the injection modes

- Hydrodynamic injection: 50 mbar 240 sec (n=48)
- Electrokinetic injection: -10 kV 30 sec (n=48)

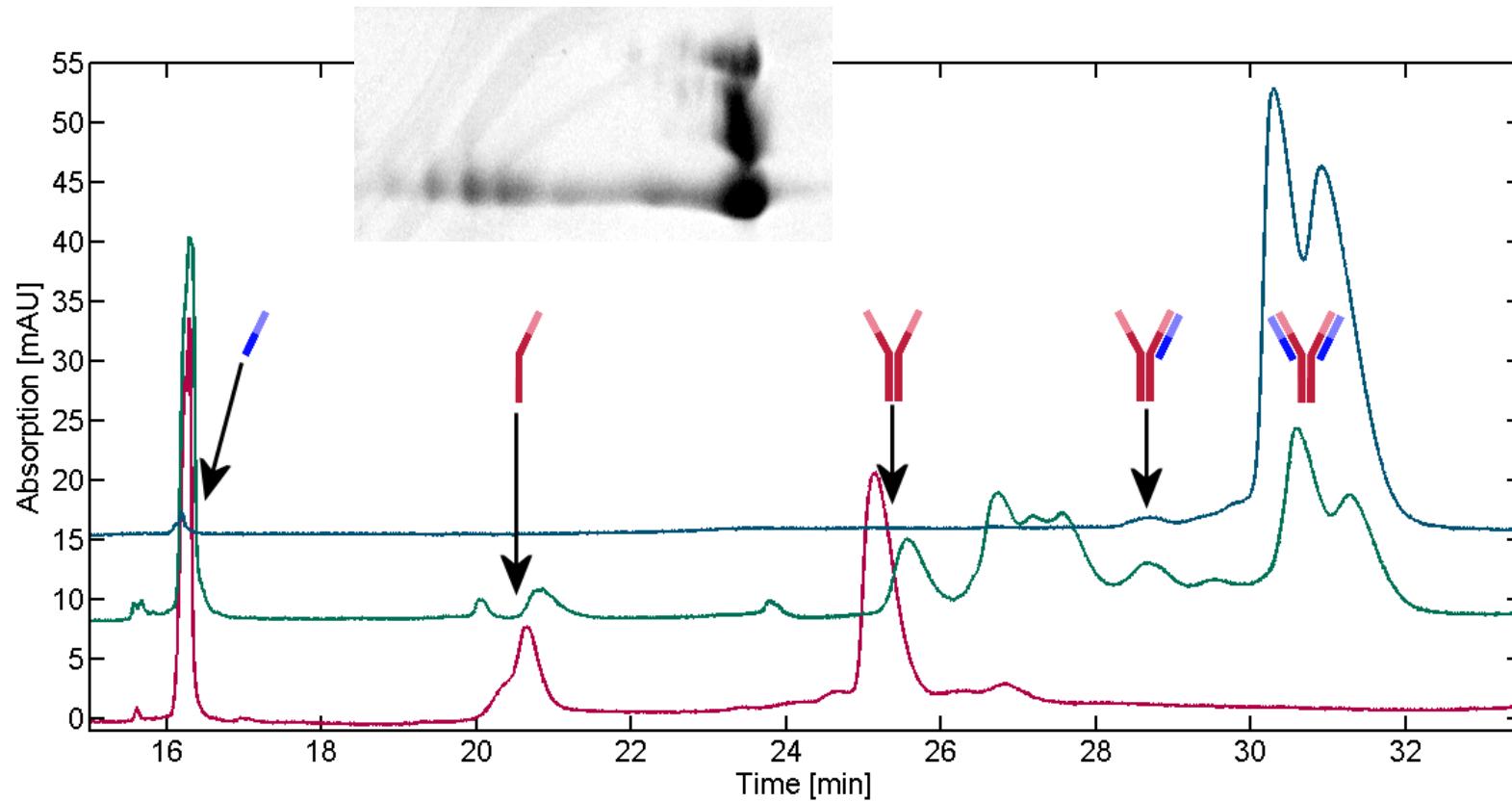
	Hydrodynamic injection		Electokinetic injection	
	Mean [%]	RSD%	Mean [%]	RSD%
Myoglobin	28.0	2.24	30.5	3.74
Carbonic anhydrase	15.6	1.15	14.7	1.65
Ovalbumin	20.9	2.20	21.1	2.66
BSA	35.5	1.57	33.7	3.29

Evaluated over the total area

Application



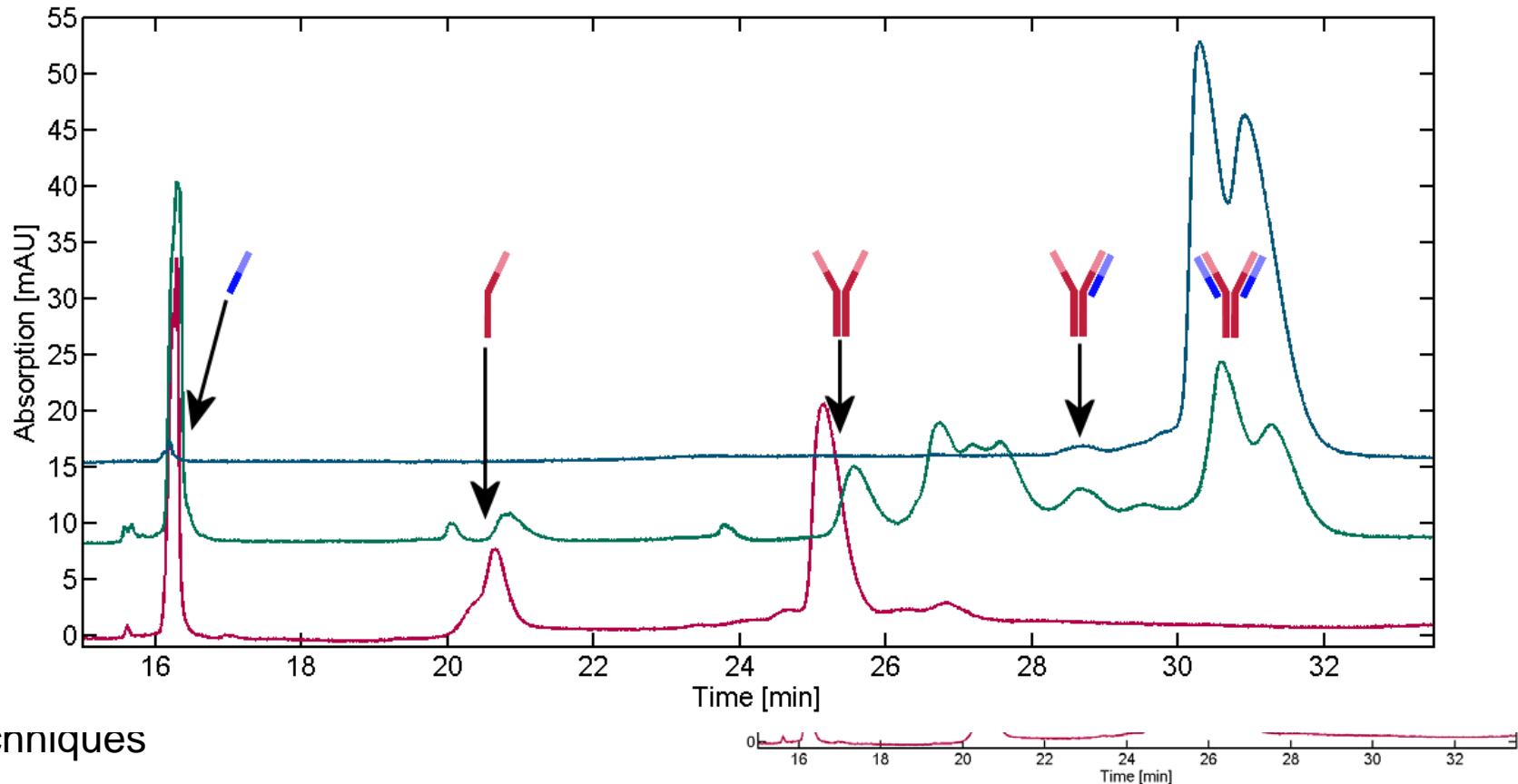
Application



Summary

■ Fabulous precision

Hydrodynamic



Techniques

Acknowledgment



Polymicro
TECHNOLOGIES
A Subsidiary of **molex**

Donia Elfahem
Jorrit Maul
Franziska Steinicke

Postersession am Donnerstag:
PO-135
PO-136
PO-141
PO-142
PO-178

Summary

- Fabulous precision
 - if the signal-to-noise ratio is greater than 100
 - if the sample is injected hydrodynamically
 - if CISS is used as integration software
 - if the results are evaluated with the 100% method
- High selectivity
- Precise tool for quality control of proteins and antibodies instead of Gel Electrophoresis and Chromatographique Techniques

	Hydrodynamic injection	
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