

Series II Protein 80 and 230 kits Speed up your analysis with the Agilent 2100 bioanalyzer

The fast and reliable way to replace analytical SDS-PAGE methods

Are you expressing recombinant proteins, purifying proteins, performing stability studies or working with antibodies? Do you need a reliable protein quality control? Would you like to obtain details on protein size, purity and concentration in one fast step?

10 reasons to switch from SDS-PAGE to the 2100 bioanalyzer

- Improved data reliability Pre-packaged reagents and standardized assays yield highly reproducible data.
- Faster results Sizing and quantitation of 10 samples in less than 45 minutes including sample preparation and data analysis.
- **3. Easy-to-use** Simply load the chip, press "start" and the Agilent 2100 bioanalyzer does the rest.
- Applicable to quality control in regulated environments – 21 CFR part 11 compliant Security Pack software, IQ & OQ/PV services for hardware and software, declaration of conformity for consumables.
- 5. Minimal sample consumption Only 4 μL of protein sample required per analysis.



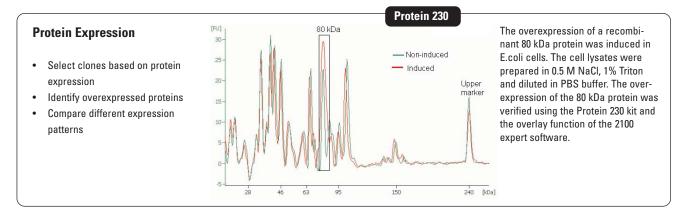
- No manual staining and destaining steps – All integrated into a single, automated step.
- 7. Clean Minimal exposure to hazardous materials.
- 8. Quick and easy sample comparison – One-click overlay, scaling or zooming features.
- Alternative data display options – Results shown in gel-like image, electropherogram and tabular formats.
- Conveniently archived and stored digital data – Share data with others and export it for publication or presentations.

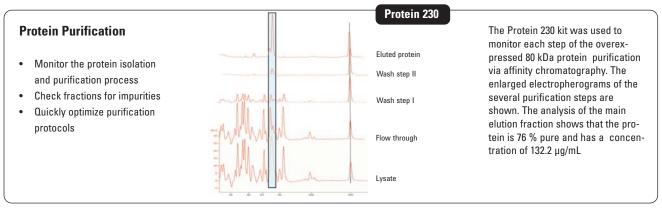
Specifications	Protein 80 (p/n 5067-1515)	Protein 230 kit (p/n 5067-1517)
Sizing range	5-80 kDa	14-230 kDa
Typical sizing resolution	10 %	10 %
Typical sizing accuracy	10 % CV (CAII, BLG)	10 % CV (CAII, BLG)
Sizing reproducibility	3 % CV (CAII, BLG)	3 % CV
Sensitivity (S/N>3)	6 ng/µL CAII (15 ng/µL BSA)	6 ng/µL CAII (15 ng/µL BSA) in PBS
	in PBS, 10 ng/µL (CAII)	30 ng/µL (BSA) in 0.5 M NaCl
	in 0.5 M NaCl (30 ng/µL BSA)	
Quantitative range	60-2000 ng/µL CAII in PBS	15-2000 ng/µL CAII 30-2000 ng/µL BSA
		in PBS
Qualitative range	6-4000 ng/µL CAII in BLG	6-5000 ng/µL CAII in PBS
		15-5000 ng/µL BSA in PBS
Quantitation reproducibility 20 % CV (CAII, BLG)		20 % CV (CAII, BLG)
Physical specifications		
Analysis time	30 minutes	30 minutes
Number of samples	10 samples/chip	10 samples/chip
Sample volume	4 µL	4 μL
Kit stability	4 months	4 months

CAII= Carbonic Anhydrase II, BSA=Bovine Serum Albumin, BLG=beta-Lactoglobulin



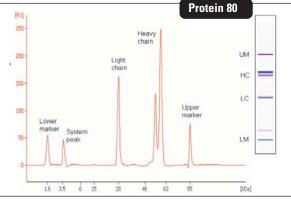
Solutions for a wide range of applications





Protein QA/QC

- Monitor protein stability, e.g. degradation and integrity
- Determine protein contaminations
- Analyze proteins under reducing and non-reducing conditions in parallel on one chip



The Protein 80 kit was used for quality control of an IgG antibody under reducing conditions in the presence of DTT. The electropherogram and the gel-like image show three main peaks/bands, the light chain, and the heavy chain with and without glycosylation. No degradation was detected.

Kits for the Agilent 2100 bioanalyzer are available for the analysis of DNA, RNA, proteins and cells.



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