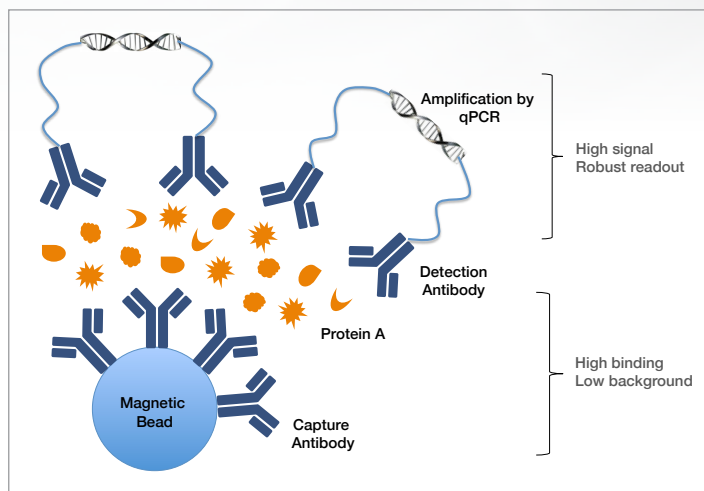


# ProteinSEQ™ Protein A Quantitation System

Breakthrough protein immuno-PCR quantitation platform

**Designed for sensitive and robust Protein A quantitation with up to 4 logs of dynamic range**

The removal of product and process impurities is a critical step in the production of biopharmaceutical products. Current methods to quantify proteins (e.g., ELISA) are limited by narrow dynamic range, low sensitivity, laborious workflows, lack of dilution linearity, and poor robustness when used with complex matrices. The ProteinSEQ™ Protein A Quantitation System is an immuno-PCR-based method that addresses these challenges, providing greater confidence and quality of data throughout the quantitation process.



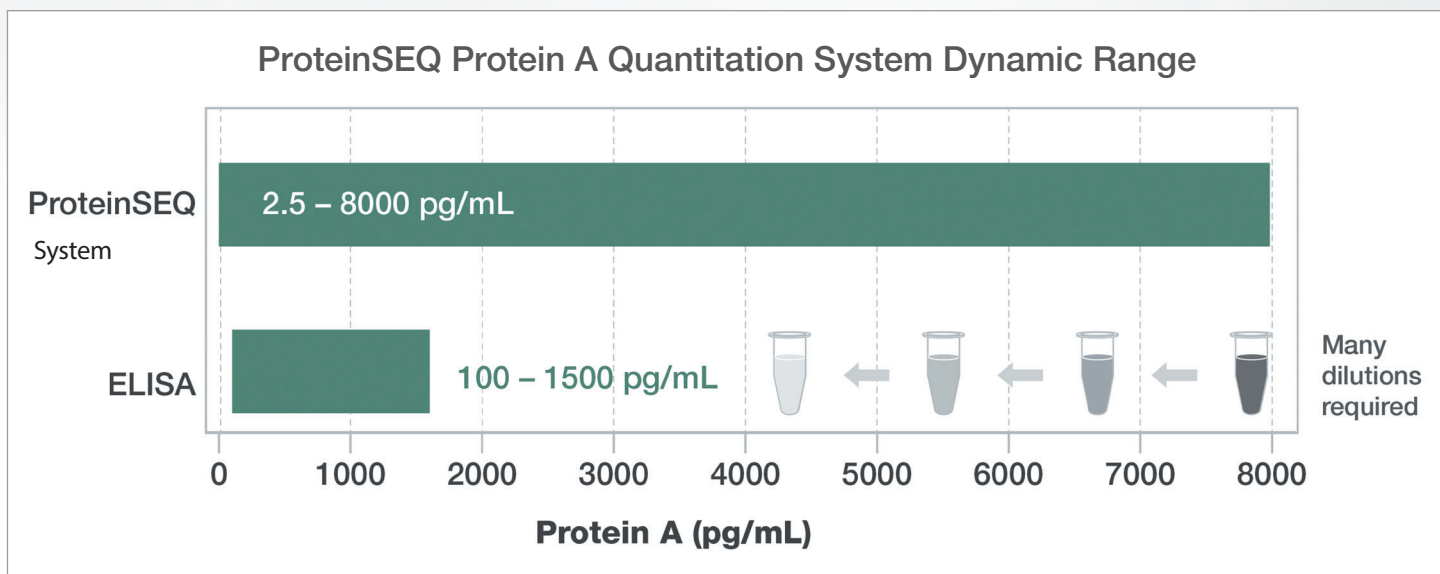
The ProteinSEQ™ Protein A Quantitation System helps provide:

- **High sensitivity:** 1 pg/mL method LOQ for more data for process improvement
- **Broad dynamic range:** Up to 4 logs of dynamic range
- **Robust recovery:** Greater than 50% recovery even in the presence of high concentrations of IgG
- **Semi-Automation:** Two-hour walk-away processing of 96-well plates
- **Cost effective:** Helps reduce cost per valid result

ProteinSEQ System	ELISA
Wide assay range, fewer dilutions per sample	Narrow assay range, more dilutions per sample
Robust assay, few sample and assay failures	Prone to errors, more sample and assay failures
24 valid data points per run at single concentration	8 valid data points per run with three dilutions needed
120 samples measured in 5 plates	120 samples measured in 15 plates

To learn more, go to [thermofisher.com/proteinseq](http://thermofisher.com/proteinseq)

## Unmatched Sensitivity and Dynamic Range



The ProteinSEQ Protein A Quantitation System offers the highest sensitivity of any Protein A quantitation method currently available. Its near 5-log dynamic range substantially reduces sample dilutions, offering more samples per plate, more valid data points per run, and higher productivity per assay.

	Minimum Dilution	Std Curve LLOQ	Method LLOQ
ProteinSEQ™ System	2X	0.512 pg/mL	1.02 pg/mL
(Typical) ELISA	10X	75 pg/mL	750 pg/mL

Figure 1: Direct comparison of lower limit of quantitation for ProteinSEQ System and ELISA

## Ordering information

Description	Part Number
ProteinSEQ Protein A Quantitation Kit with Standard	4469977B
ProteinSEQ Protein A Quantitation Kit without Standard	4471099B
Pharma KingFisher™ Flex 96 Deep-Well Magnetic Particle Processor	A31508
AccuSEQ 2.0 Real-Time PCR Software	4443421
7500 Service IQ/OQ Service	4365572

