



**NOVILYTIC**

THE CANARY IN THE FERMENTOR

# TURN YOUR LC INTO A PROTEOFORM METER

## PROTEOMETER-L STARTER KIT

The Proteometer Kit transforms any LC with a fluorescence detector into an analytical system capable of identifying and quantifying titer and relative aggregate content in crude culture filtrate in <10 minutes, without sample preparation.

This plug-and-play solution provides savings of over \$200,000 per day by eliminating the hours of sample preparation traditionally required for molecular analysis.<sup>1-2</sup>

At-line Applications:

- Drug Discovery
- Clone Selection
- High Throughput Screening
- PR&D and Manufacturing

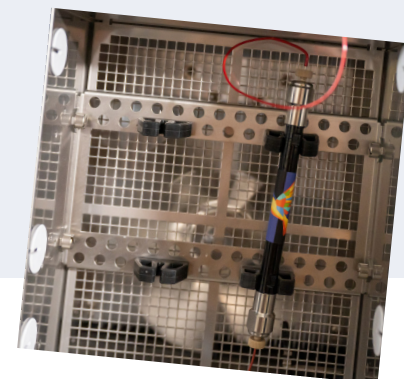
## FEATURES & BENEFITS

- Direct analysis from CFF
- Includes all components for titer & aggregate analysis of mAbs
- <10-minute structural analysis
- Allows for multiplexing, unlike traditional ELISA analysis
- Works with existing LCs



## KIT COMPONENTS / FEATURES

- Proteometer-L Reactor
- Proteometer-L Reagent
- Proteometer-L Buffer
- Proteometer-L Reconstitution Reagent
- Instructions for use



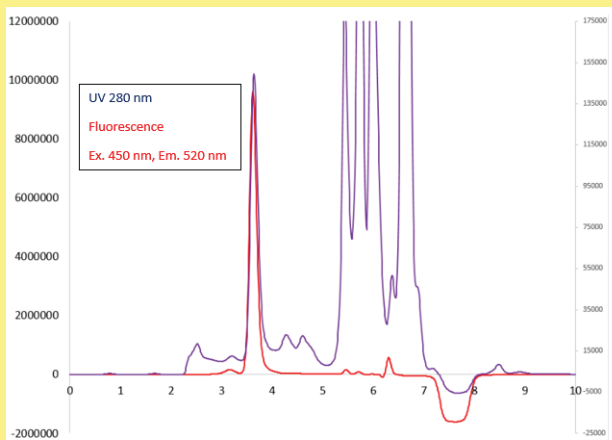
<sup>1</sup> Vieira, M. (2020, January). Costs of Pharmaceutical R&D. Knowledge Portal. <https://www.knowledgeportal.org/costs-r-d>

<sup>2</sup> JAMA, March 3, 2020; Estimated Research and Development Investment Needed to Bring a New Medicine to Market, 2009-2018; Olivier J. Wouters, PhD1; Martin McKee, MD, DSc2; Jeroen Luyten, PhD3;; Average cost range, 10 year

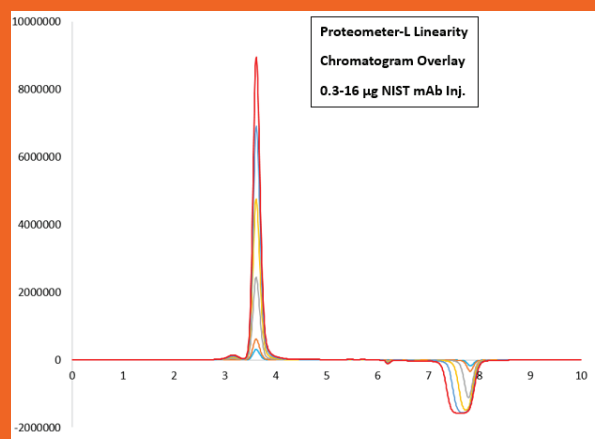
# SCIENTIFIC BENEFITS

- No sample purification required
- mAb titer and relative aggregate content in one easy-to-use assay
- Linear response from 0.5-80µg mAb (response range may vary per instrument)
- No Mass Spec required

Comparison of UV and FLR chromatograms of NIST mAb in Crude Culture Filtrate



Proteometer-L Linearity Chromatogram Overlay 0.3-16 mg NIST mAb Inj.



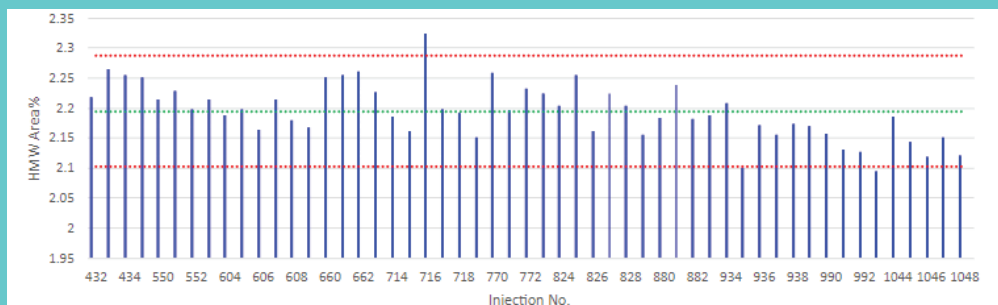
"We use the Proteometer-L Kit for the rapid analysis of mAbs for titer and aggregate content from cell-free filtrate samples. It eliminates sample preparation steps, Protein A purification, and mass spectrometry analysis steps. I would recommend the Proteometer to any pharmaceutical company to quickly and accurately quantitate mAb titer and aggregate content."

Harsha Gunawardena, Ph.D., Principal Scientist  
Janssen Pharmaceuticals  
(Johnson & Johnson's research division)

"Novilytic's Proteometer is a disruptive breakthrough that finally solves the FDA's requirement to continuously monitor t-mAb proteoforms during fermentation. The approach improves product safety, reduces COPO and post release testing, and paves the way for real-time product release, reducing inventory costs."

Martin Long, BSc. Performance Validation, Inc.  
President & CEO

HMW Area % vs. Injection No. (Reactor Longevity Testing)  
Fluorescence 450>520 nm



SCAN ME