



# The Proteometer<sup>®</sup> Platform

JAN 2025



# Introducing Novilytic

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Inspired by the historical use of canaries in coal mines as early indicators, our nanotechnology acts as “**The Canary in the Fermentor**” by allowing scientists to receive early feedback that they’ll utilize to ensure the safety, efficacy, and availability of lifesaving medicines.



**NOVILYTIC**  
THE CANARY IN THE FERMENTOR

# Value Proposition

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**Novilytic's Proteometer** is for scientists and engineers whose valuable time is taken up by sample preparation.

Unlike the lengthy processes that can take 8 to 24 hours—such as Protein A purification followed by multi-stage HPLC and mass spectrometry—**Novilytic's Proteometer** delivers more accurate aggregate and titer data in less than 10 minutes.



# How to Use the Proteometer-L Kit

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**Novilytic's Proteometer-L Kit** can be used on your existing HPLC with a fluorescence detector and contains everything necessary to run the assay.

Replace your HPLC column with the Proteometer reactor, mix the mobile phase as instructed and you can start collecting data.

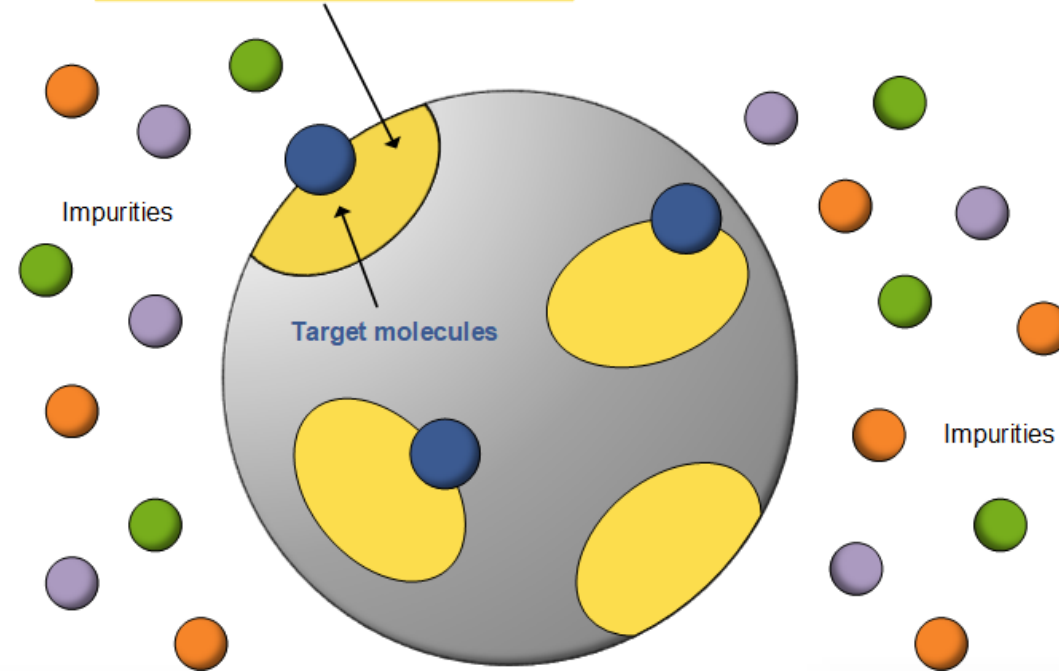
Follow the method details provided in the kit as there is no methods development required by you!



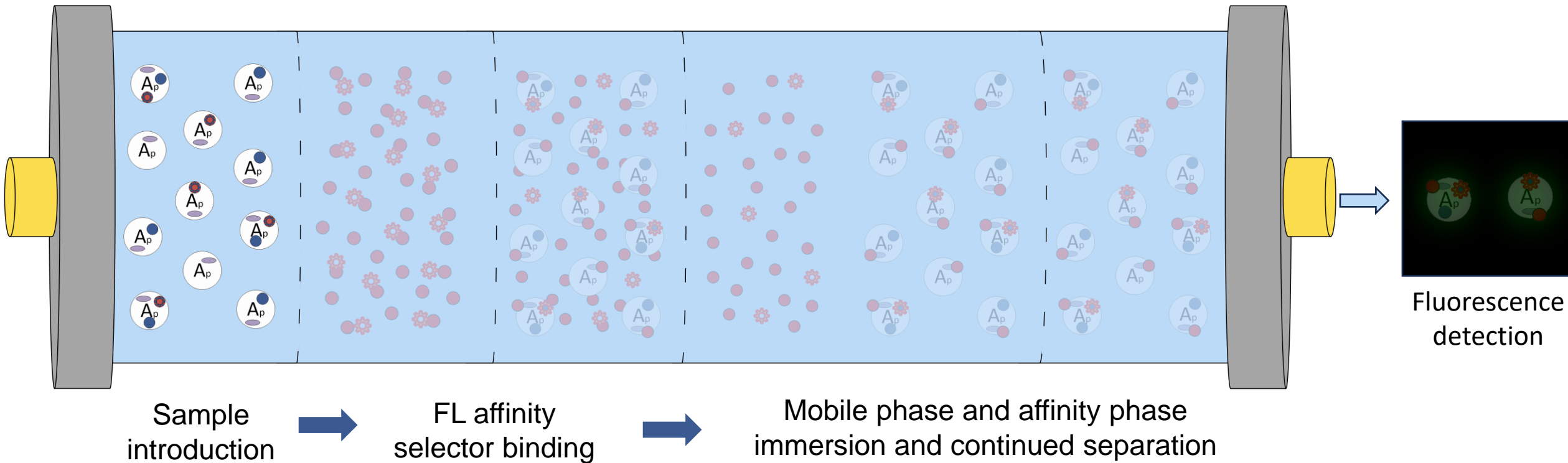
# Novilytic's Approach: Secret Sauce

Multiple **fluorescent affinity selectors** capable of binding target molecules

Novilytic's Secret Sauce

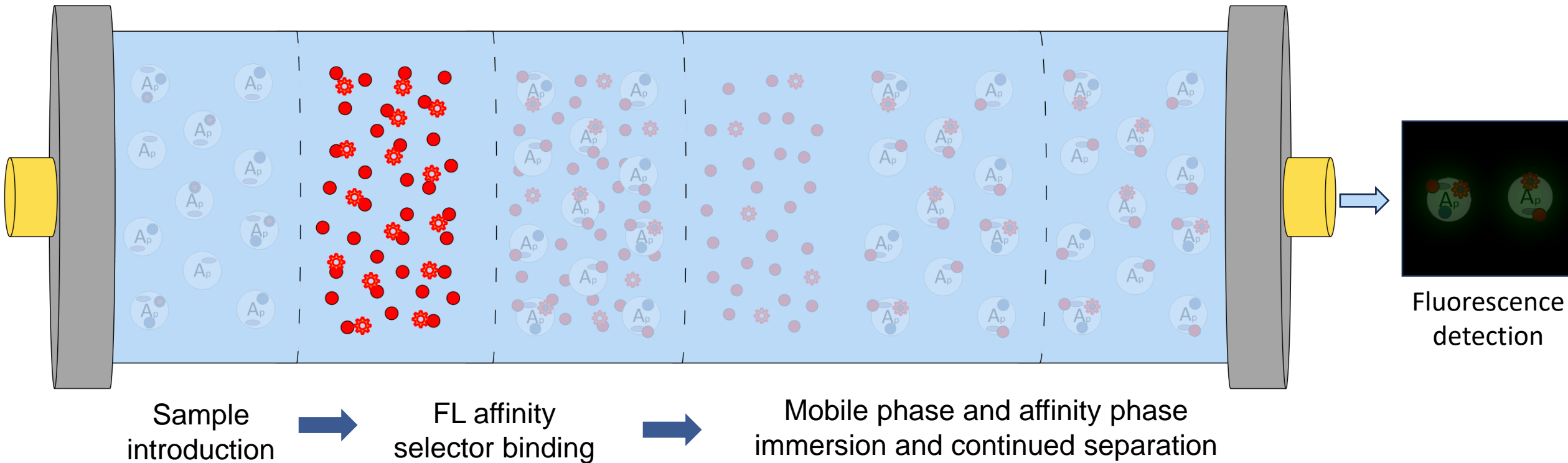


# Proteometer Reactor



Notes: (1) All the information in this presentation is Novilytic background IP, (2.) MASC, FRET assay technology, and ligand-Specific labeling of HCP's are patented technology from Novilytic, LLC (USP 10,018,635 B2 ; USP 10,670,607 B2; USP 10,065,988), (3.) At-line Reactor Test hardware and technology is Patent Pending (F.E. Regnier, et.al. Novilytic, LLC)

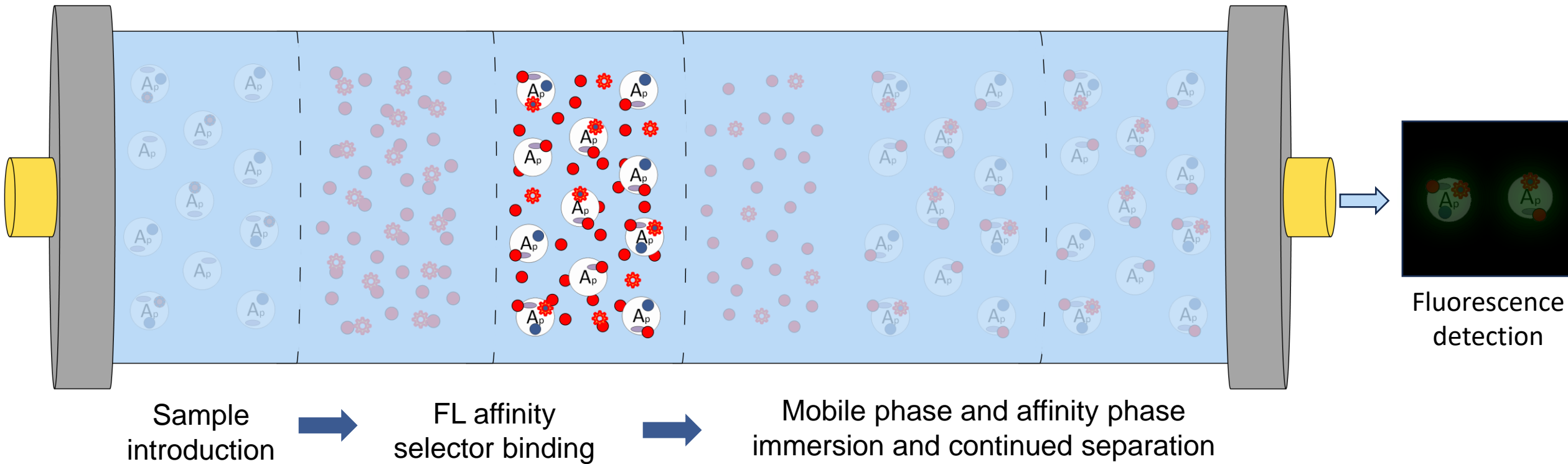
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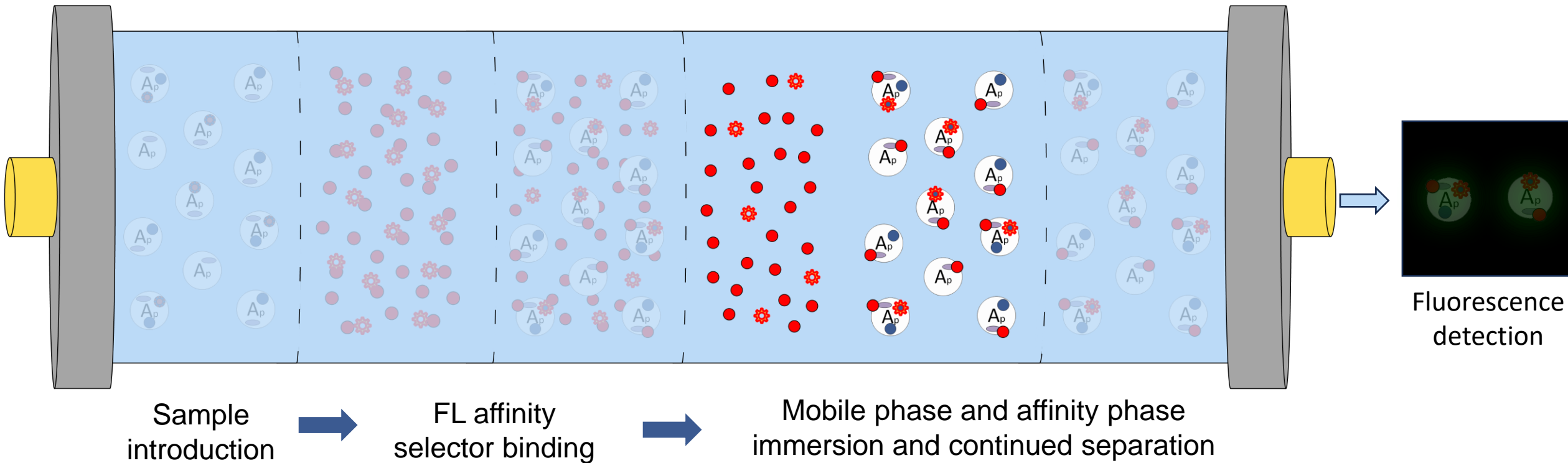
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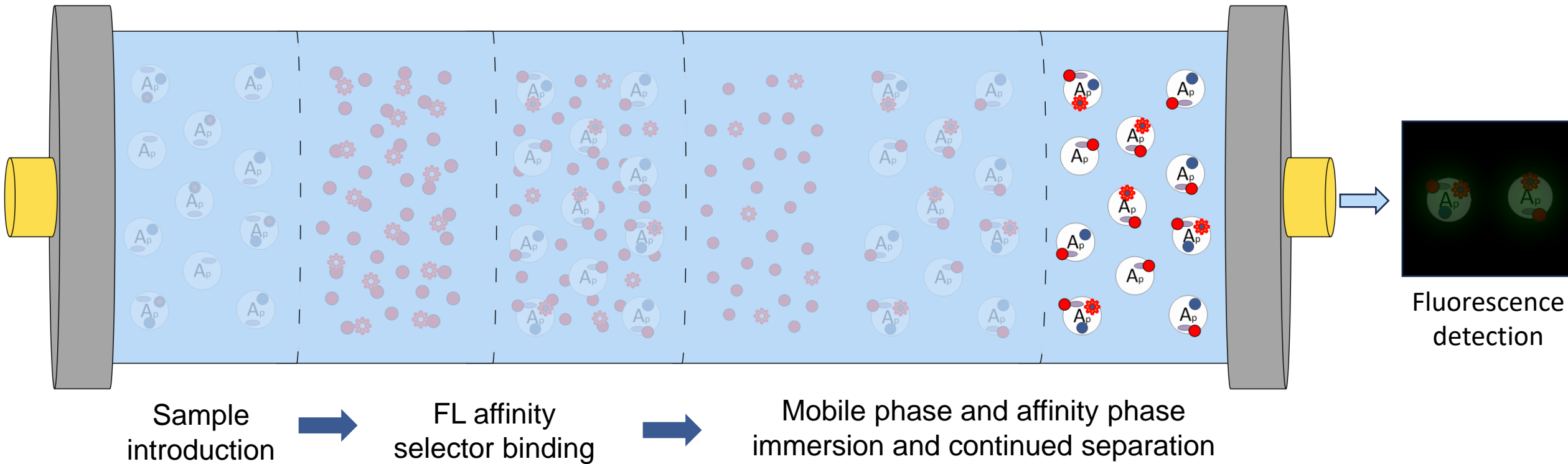


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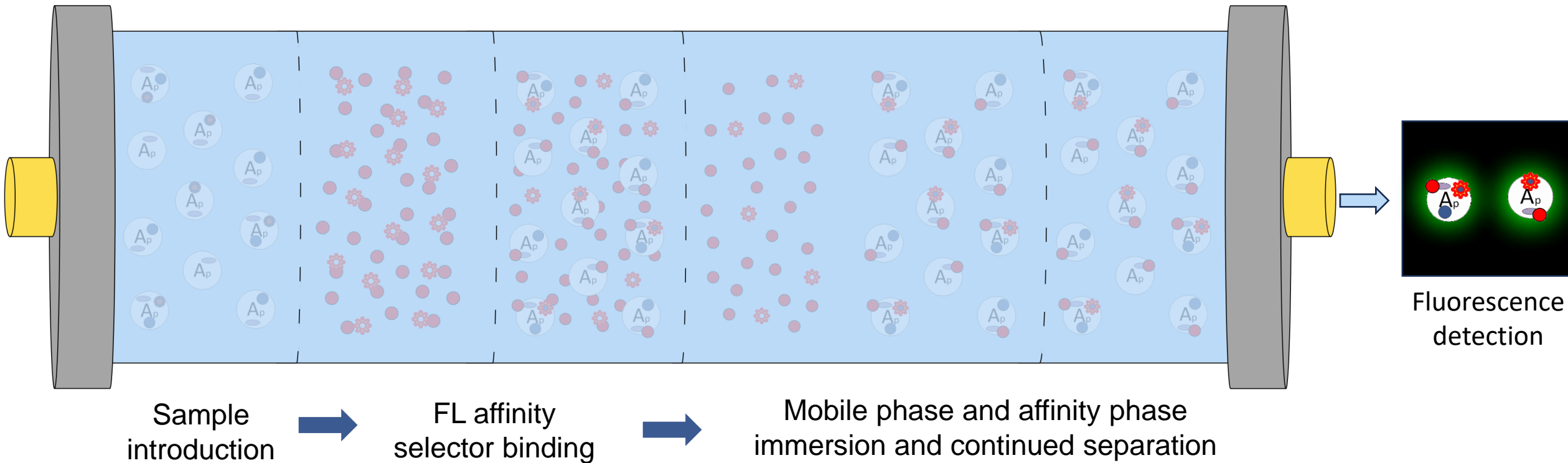
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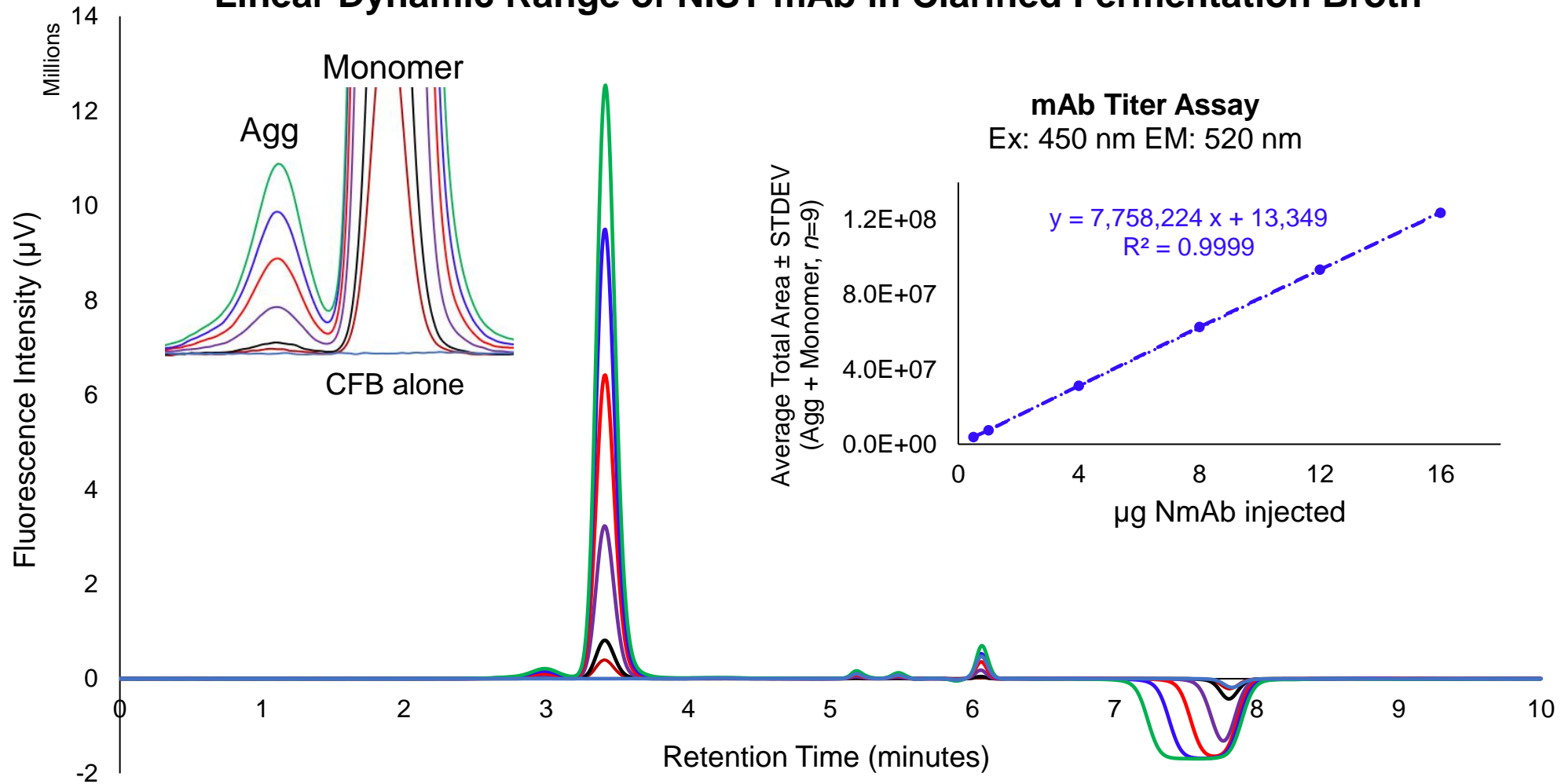
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# Proteometer-L Results

## Linear Dynamic Range of NIST mAb in Clarified Fermentation Broth



**Co-eluting host-cell proteins in the CFB are rendered invisible to the detector**

# Product Overview

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## Proteometer-L

mAb titer &  
aggregate

10-minute  
analysis

## Proteometer-UFT

mAb titer

90-second  
analysis

No sample prep required

For proteins containing a human Fc region



# Proteometer-L



Feature	Benefit
mAb titer + aggregate measurement	One assay for two critical quality attributes
No Protein-A purification required	Reduces costs, better accuracy
No sample pretreatment	Reduces hours/days of sample prep
No method development	Fast adoption, saving time
Plug-and play kit for any LC	Easy adoption – no new software needed



# Proteometer-UFT



Feature	Benefit
No Protein-A purification required	Reduces hours of testing to <2 min
Plug-and play kit for any LC	Easy setup – no new software needed
No method development	Minimal time investment prior to collecting data
Ultra Fast Titer Analysis	Short cycle time saves money and resources
At-line analysis	Simplifies sample collection

