



The Proteometer® Platform

JAN 2025

Introducing Novilytic

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

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

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.

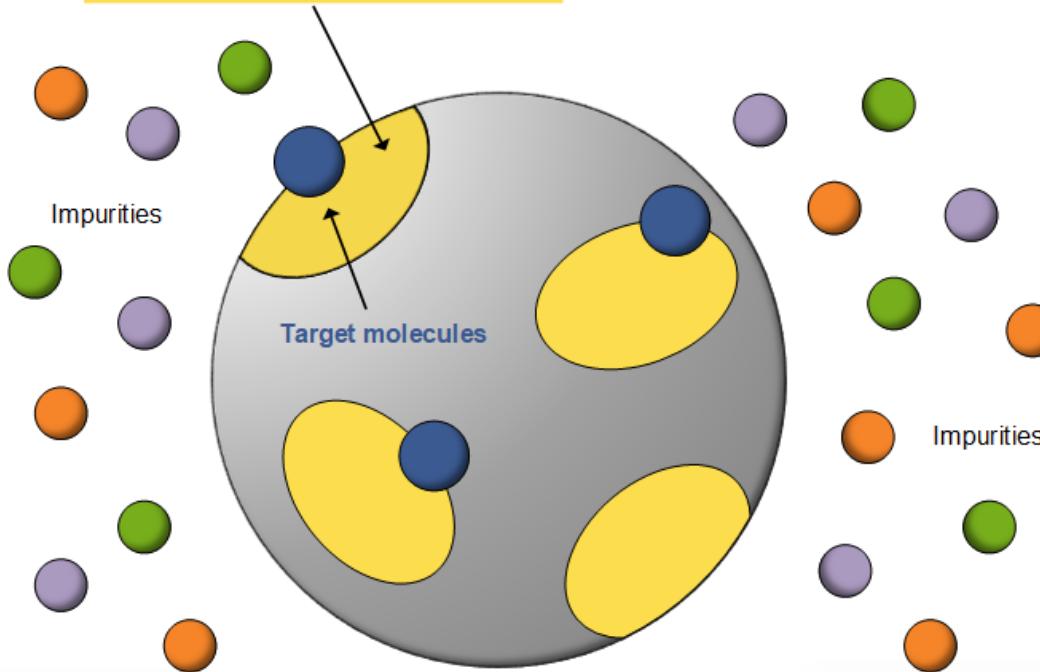
Follow the method details provided in the kit as there is no methods development required by you!



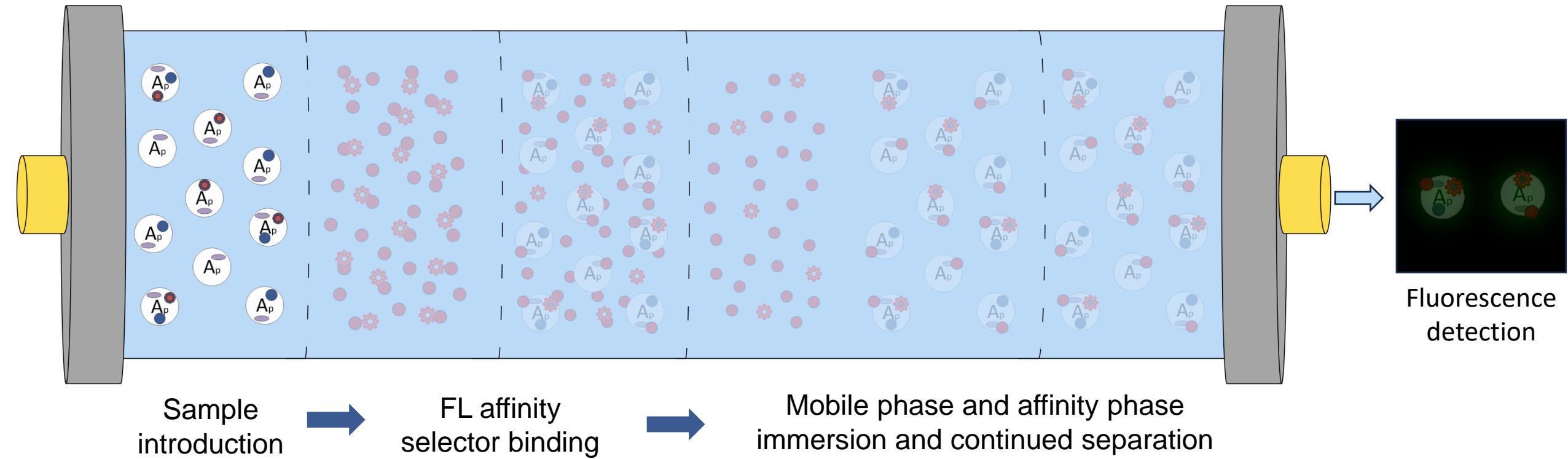
Novilytic's Approach: Secret Sauce

Novilytic's Secret Sauce

Multiple fluorescent affinity selectors capable of binding target molecules



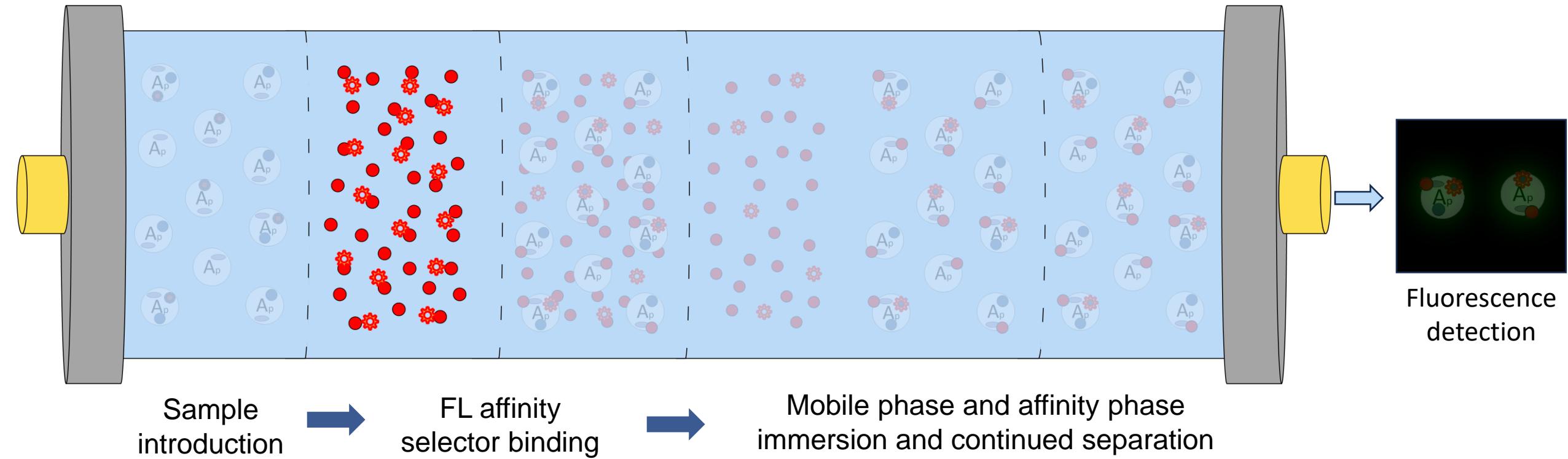
Proteometer Reactor



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)



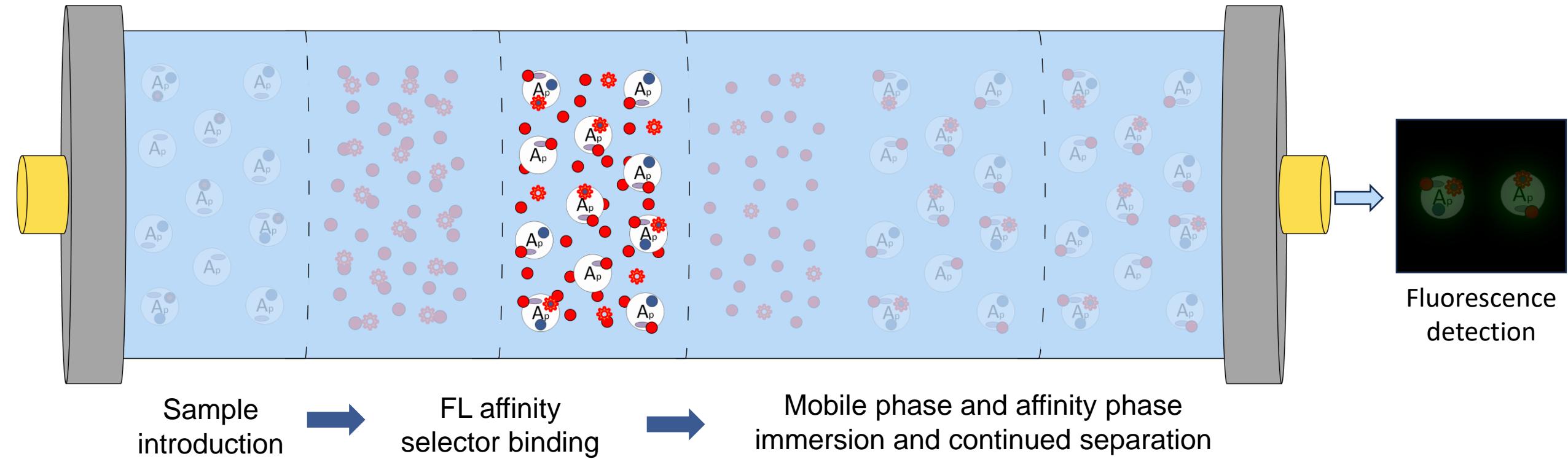
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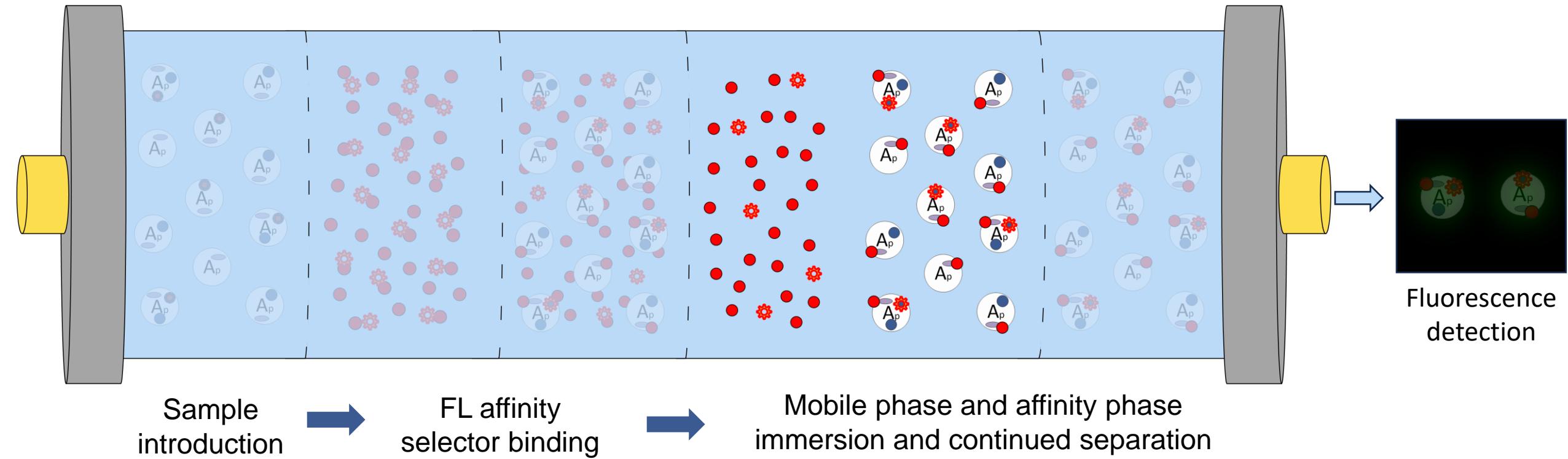
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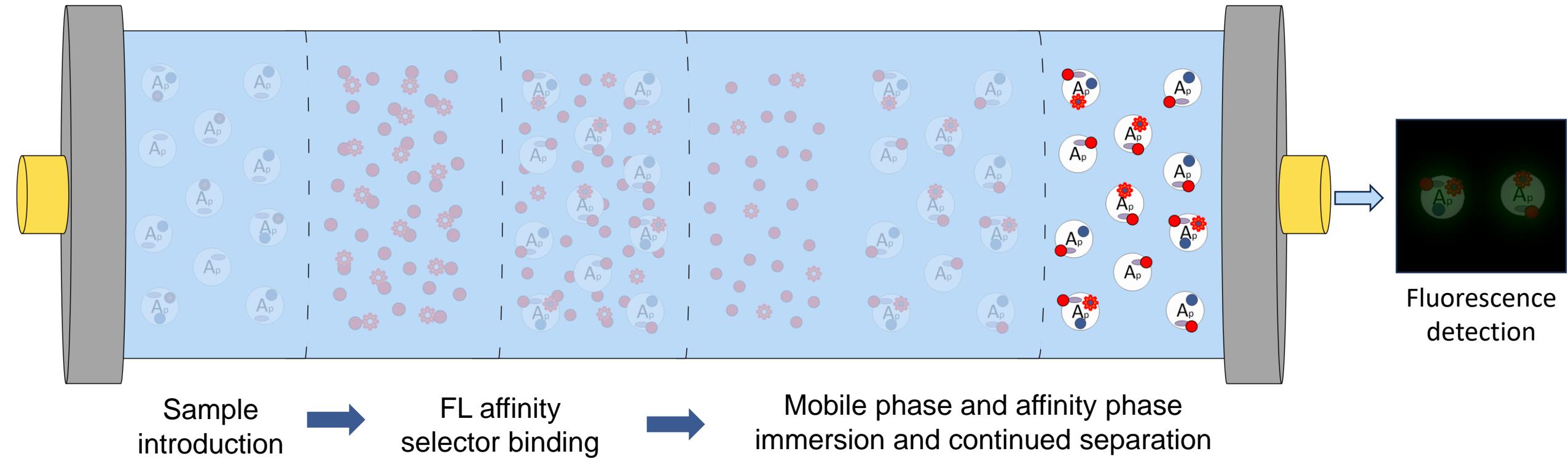
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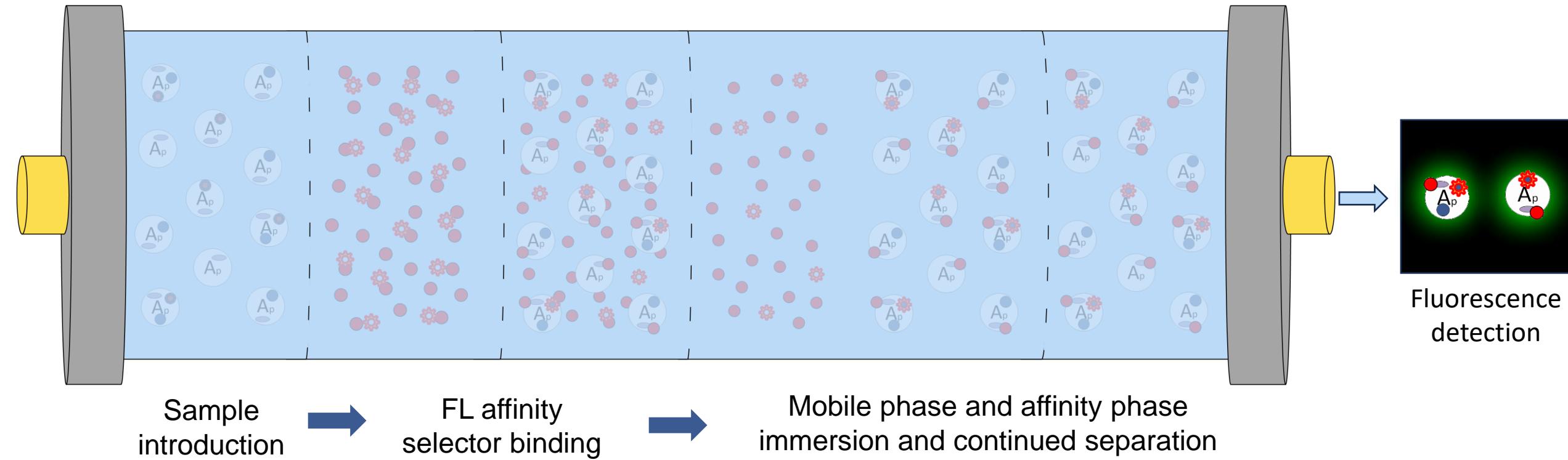
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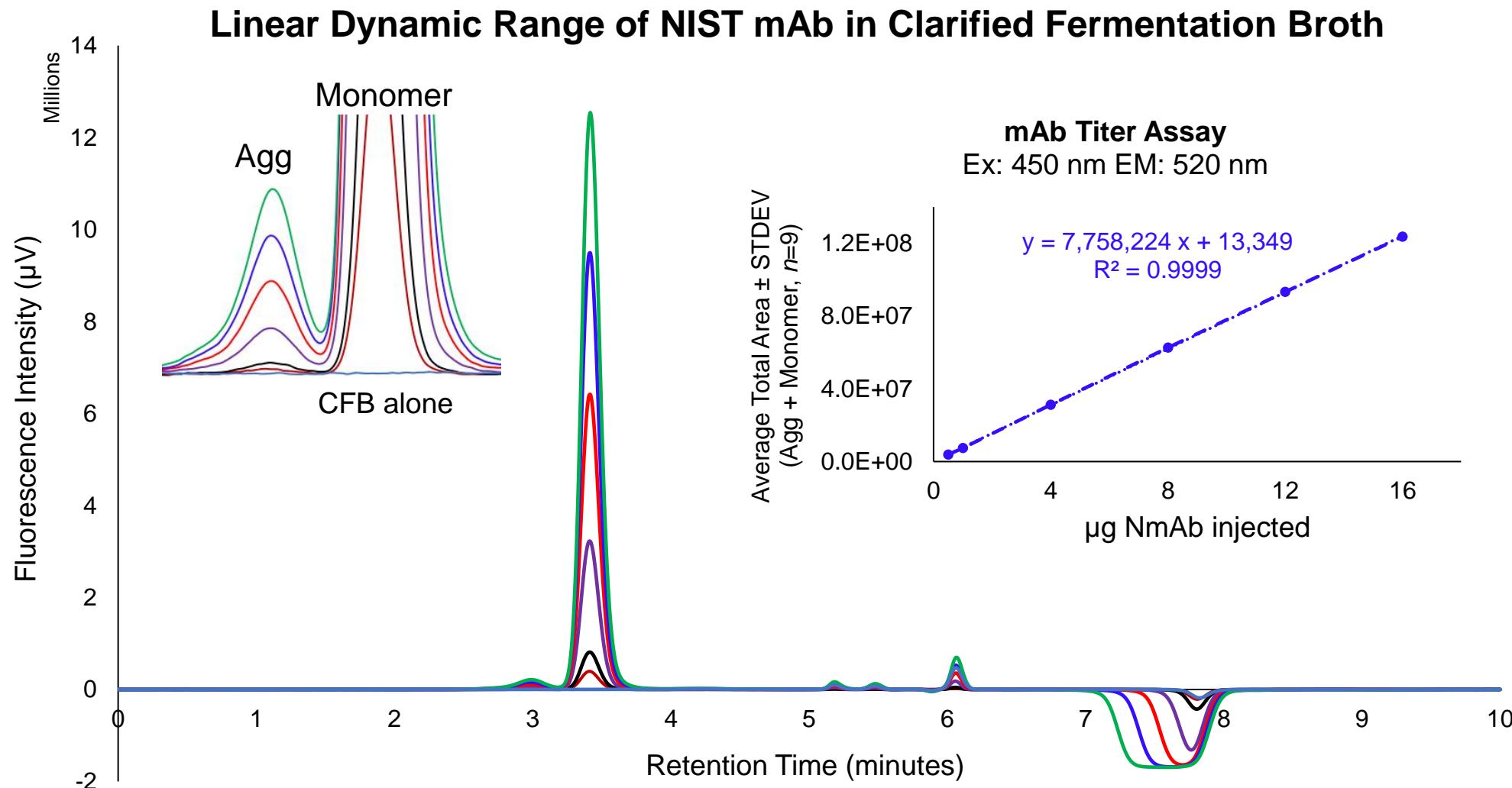
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Proteometer-L Results



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

Product Overview

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

