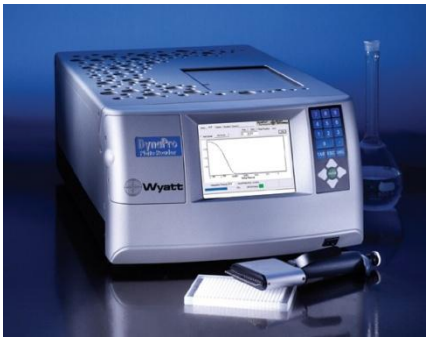
University of Rochester
Structural Biology & Biophysics Facility

ÄKTA Pure

Biacore T200 SPR



DynaPro Plate Reader II

- We provide non-specialist and specialist users with access to biophysical instrumentation that can be used to:
  - Purify RNA, proteins, peptides and complexes thereof using ÄKTA Pure chromatography system:
    - Requires chromatography columns by GE and other vendors (e.g. Bio-Rad).
    - Monitors UV absorbance at 280 nm
    - Equipped with a pH electrode to monitor gradients and elution conditions.
    - Automate cleaning and increase eluted concentration using column bypass.
    - Unicorn software facilitates design of purification methods and result evaluation.
  - Characterize biomolecular interactions using our state-of-the-art Biacore T200 Surface Plasmon Resonance (SPR) system:
    - Capable of measuring kinetic on-rates ranging from 10^3 to 3 x10^9 M^{-1} s^{-1} and off-rates from 10^{-5} to 1 s^{-1}.
    - Temperature control allows for analysis in a range from 4 - 45 ˚C.
    - Software is designed for fast assay development, analysis, and evaluation of every interaction parameter.
  - Determine the hydrodynamic radius (size) and size distribution of polymers and biopolymers in solution using Dynamic Light Scattering (DLS):
    - High-throughput plate reader accepts 96, 384, 1536-well plates.
    - Temperature controlled operation allows for the determination of polydispersity, size, and thermal stability between the range of 4 - 85 °C.
- We offer training on all instruments, as well as fee-for-service options.

Questions?
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