

Surface plasmon resonance imaging

Description/Parameters

Open Plex (Horiba) is a flexible surface plasmon resonance imaging system for the development of label-free and multiplexed bio-assays, and molecule detection. It enables numerous types of experiments covering chemistry, biochemistry, physico-chemistry, and biomolecular interactions. It is equipped with a unique system for determining the permeability of membranes for organic compounds and for water. The device is further equipped with a manual arrayer and an automated sampler.

Utilization/Services

Detection of xenobiotics in water samples, study of interactions between molecules and surfaces. Measurement of membrane permeability for organic compounds (pharmaceuticals, pesticides, etc.).

- Sample volume: typically 200 μL
- Sample concentration: 300 ng/mL (100-1000 kDa) to 10 $\mu\text{g/mL}$ (4-20 kDa)
- Sample molecular weight: > 240 Da
- Limit of detection: 5 pg/mm²

