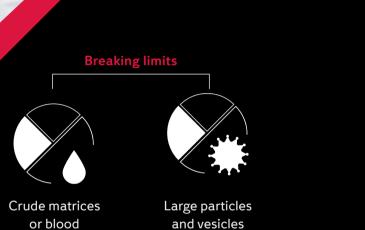
White FOx is the only
SPR system that can reliably
measure in crude samples,
including whole blood.

- The performance and speed of SPR
- The ease of use of a dip-in sensor
- Process crude samples, no clogging, no cleaning



Kinetics

Label-free quantification

of protein and antibodies



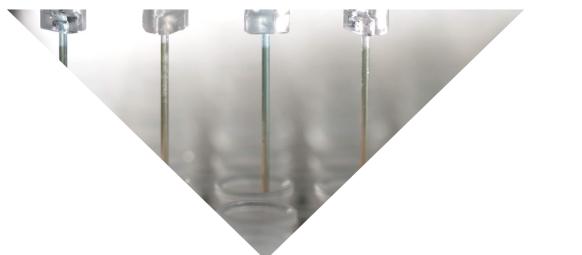




Pharmabs, KULEUVEN

Karen Vanhoorelbeke,

Label-free kinetic affinity data, whole blood analysis, sandwich assays all from one flexible benchtop instrument!



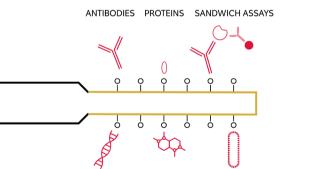
Probes

The FO-SPR probes can be coupled with a range of biomolecules

for label-free detection, affinity ranking and kinetic analysis. Fast gold nanoparticle sandwich assays provide sensitive quantification. All probes are compatible with regeneration protocols.

Carboxyl	Generic surface chemistry for full control
NTA	Ideal for analysing His-tag proteins
Streptavidin	Simply functionalize with your biotinylated molecules
Protein A	Direct IgG quantification and potency screening, easy regeneration

Visit foxbiosystems.com to see what researchers have published using FO-SPR probes.



DNA SMALL MOLECULES LARGE PARTICLES

Instrument

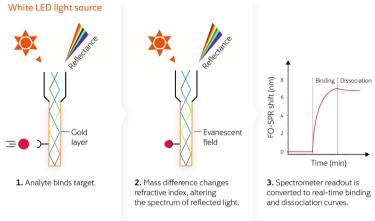
Features of the White FOx:

• True surface plasmon resonance

Fluidics free reading in microtiter plates

• Directly from crude samples: proteins, antibodies, nanobodies, complex particles, EVs, viruses, phage display, etc.

- Unprecedented robustness and low maintenance, no instrument calibration needed
- Fast time-to-result
- Reduced hands-on time
- Cost-effective compared to competing biosensor technologies



Fiber-optic surface plasmon resonance





Easy Even for challenging samples

1. BLOOD SAMPLE

The fiber-optic probe setup allows a fluidics-free dip-in protocol for the analysis of specific biomolecule binding directly in complex samples such as lysates, whole blood or large particles.

- Minimal sample processing.
- No clogging, no cleaning.

FO-SPR can accurately detect antibodies in dried blood spots.

The therapeutic drug antibody, infliximab (IFX), was spiked into blood and dried. The IFX concentration from the extract using FO-SPR correlated well with results using ELISA.

Application areas

- General protein characterization
- Immunoassay development
- Diagnostic development
- Screening and R&D for biologicals
- Bioprocess control

3. CONCENTRATION CURVE Dried blood spots

1 1 1 1

Lu et al. (2017) Immunoassay for detection of infliximab in whole blood using a fiber-optic surface plasmon resonance biosensor. Anal. Chem. 89, 3664–3671

Software



- Easy to create and change protocols without programming skills using the intuitive, visual interface.
- Follow sensorgrams in real time or leave the run unattended and view the data later.
- Open data format compatible with standard data-handling software.
- Data processing tool makes it easy to select and group curve sequences of interest and export data.
- Data analysis suite for detailed kinetics and calibration curves.

0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 24002503,59

■ CONNECTED ■ DOOR CLOSED TEMP: 23,9 C TIME: 0sec STATUS: Idle DONE

FOx BIOSYSTEMS

Specifications

