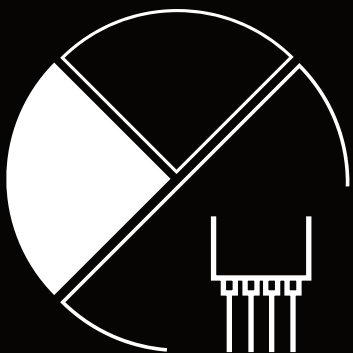




WHITE FOX

Breaking the limits
in bioanalysis






Measure real-time kinetics directly
in complex samples with easy to use
dip-in reading.

'Our expertise
now allows us to efficiently
transfer an ELISA to the WHITE FOx.
An optimized FOx assay saves us
time when running the assay.'

Karen Vanhoorelbeke,
Pharmabs, KULEUVEN



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

Breaking limits

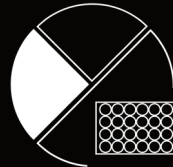


Crude matrices
or blood



Large particles
and vesicles

Labeled



Fast sandwich
assays

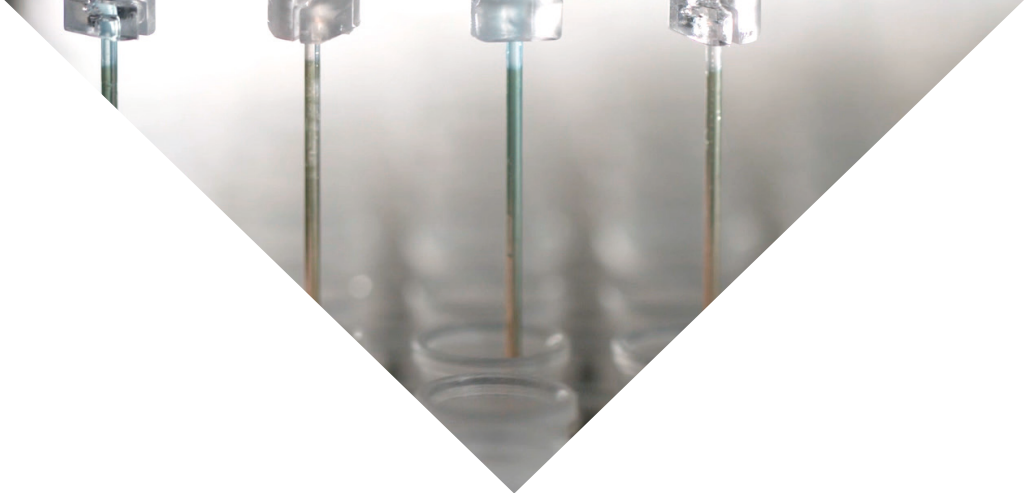
Label-free



Label-free quantification
of protein and antibodies



Kinetics



Probes

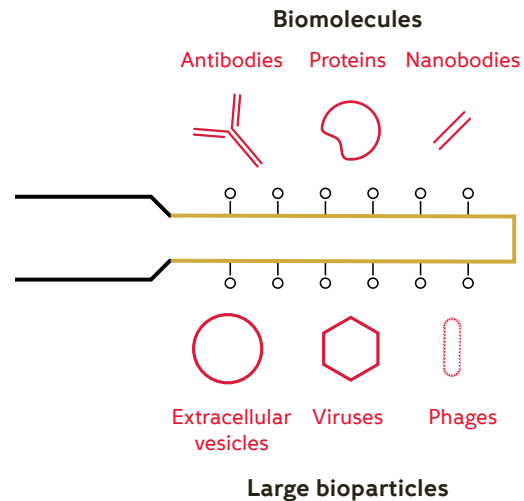
Interchangeable dip-in FO-SPR probes:

- Multiple surface chemistries available
- Low non-specific binding
- Can be regenerated and reused

Suitable for label-free detection, affinity ranking, kinetic analysis and fast sandwich assays.

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

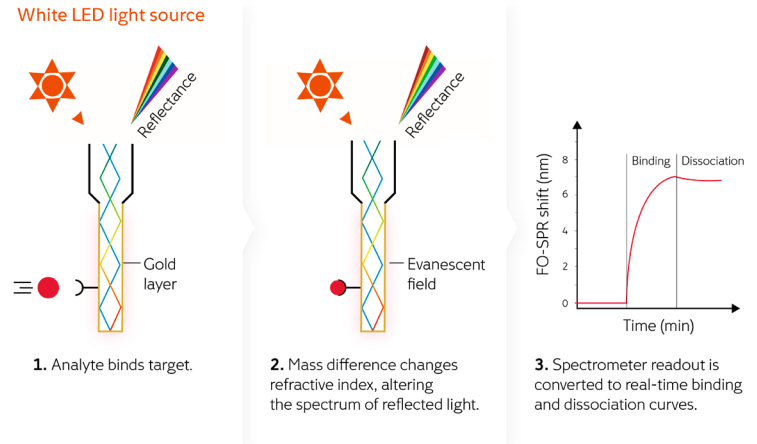
Visit foxbiosystems.com to see what researchers have published using FO-SPR probes.



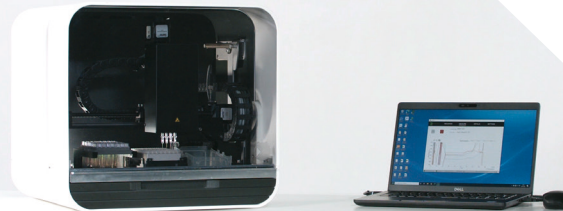
Instrument

Benefits of WHITE FOX:

- Fiber-optic surface plasmon resonance
- Label-free and labeled applications
- Binding kinetics and quantification
- No fluidics: no clogging, low maintenance
- Measure directly in simple or complex matrices
- Measure large particles
- Unprecedented robustness and low maintenance
- Fast time-to-result
- Reduced hands-on time



Fiber-optic surface plasmon resonance



Easy

Even for challenging samples

No fluidics, no clogging.

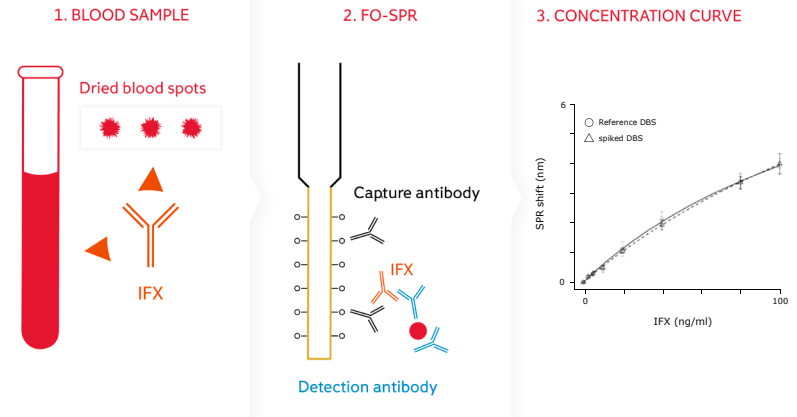
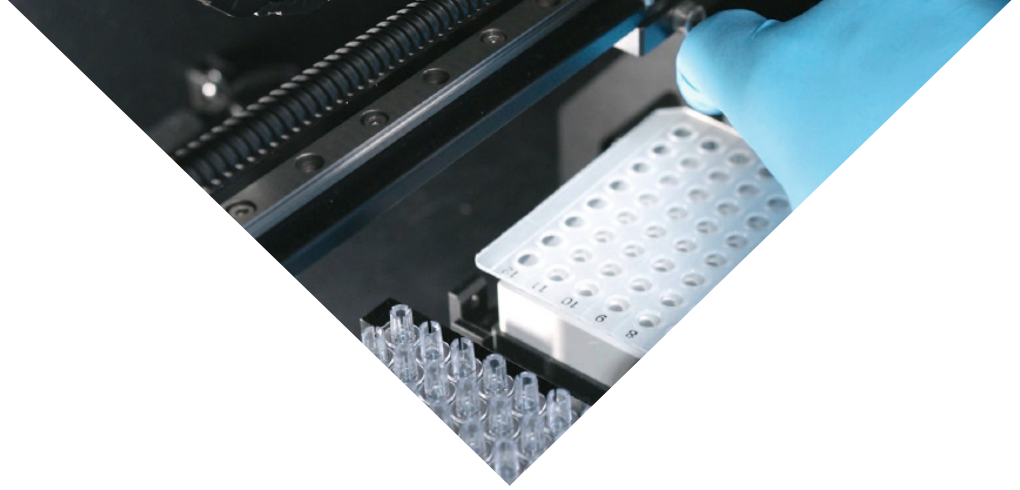
- Analyze complex matrices without sample prep
- Analyze large biomolecules, complexes and large structures like phage, viruses or vesicles
- Avoid time-consuming maintenance and cleaning

Application areas:

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

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.



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

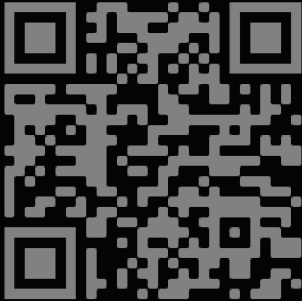
Software is an important part of the FO-SPR package.

- 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



Specifications

Model	WHITE FOX 1	Mixing frequency	Max. 2000 rpm
PC interface	USB 2.0 high-speed	Mains supply	100-240 V ($\pm 10\%$) / 50-60 Hz, IEC connector
Software & operating system	User-friendly, Windows 10, 64 bit compatible	Max. power	300 VA
Concentration range	μM - nM (label free); pM - fM (sandwich assays)	Fuses	1x T4AL250V
Assay volume	140 μl /well; non-destructive testing	Size	45 cm(W) x 43 cm(L) x 42 cm(H)
# of probes in parallel	4	Weight	24 kg
Capacity	96 well plate; 96 probes	Electrical safety	IEC protection class 1
Temperature control	Ambient to 42°C	Conformity	CE



Contact us

info@foxbiosystems.com

Or visit

www.foxbiosystems.com