

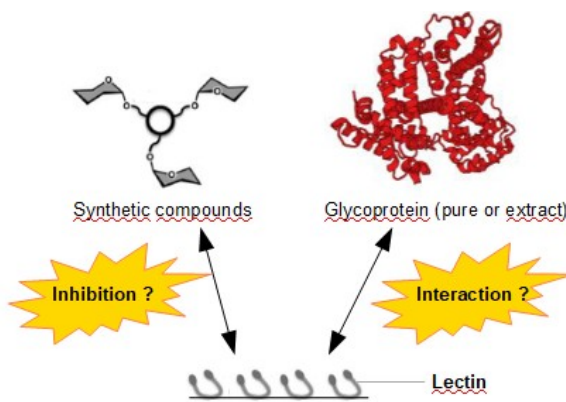


## General information

The **LEctPROFILE® kits** allow **efficient** evaluation of crude or purified glycoconjugate interactions (*i.e.* synthetic molecules or glycoconjugates) with lectins by a simple measurement of absorbance or fluorescence. The LEctPROFILE® kits enable a **fast measurement** (below 3 h) and are **easily accessible to all**.

Each kit is composed of a 96-well plate containing immobilised target lectin, and supplemented with the corresponding tracer and the revealing solution.

All our lectins are control quality proofed by a standardized procedure assessed by interactions with specific neoglycoproteins or glycoproteins through GLYcoPROFILE® method.



LEctPROFILE® kits are designed for relevant applications such as:

- 1) **Detection of desirable or undesirable glycans during the early stage of quality control of biotherapeutics;**
- 2) **Identification of glyco-biomarkers related to cells behaviour and/or pathology;**
- 3) **Analysis and characterisation of the glycosylation level of glycoproteins contained in biological fluids or to target the sialylation status of relevant serum biomarkers;**
- 4) **Research of antagonist for lectins of interest that are well-known to be involved in particular disorder or in biological mechanism.**

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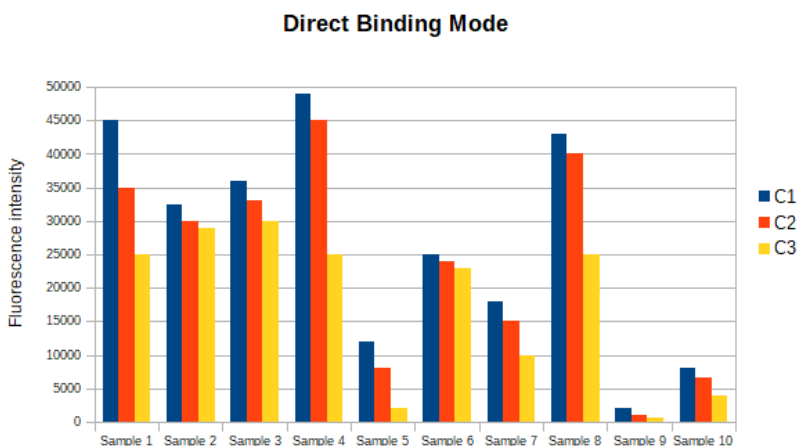
**CliniSciences Group**



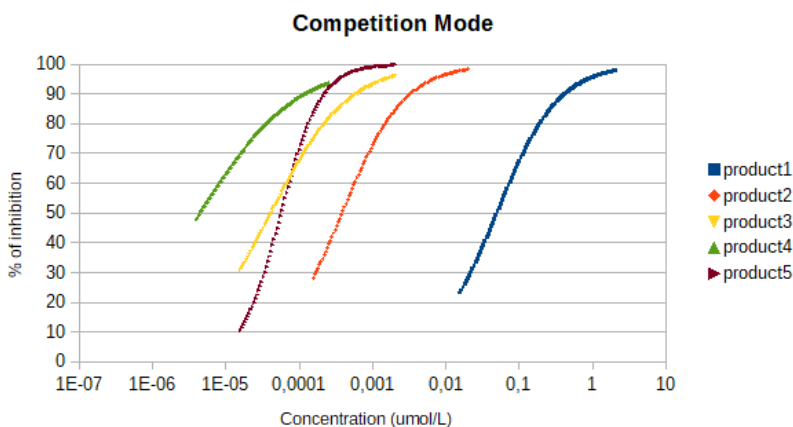
## How to use LECTPROFILE® kit?

The evaluation of compound interactions with lectins on LECTPROFILE® kits are possible by two different modes:

- **Direct Binding** is used to evaluate the potential interaction of compounds ranging from pure molecule to complex mixtures (glycocojugate(s), complex carbohydrates or glycomimetics). Previous labeling of target molecule(s) by biotinylation or by fluoresceinylation is required for readout.



- **Competition Mode** : Competitive interaction between a sample and a specific labelled tracer known to have a good affinity for the lectin without preliminary labeling of sample. This mode is typically used for the evaluation of the IC50-value (*i.e.* concentration corresponding to 50% of lectin inhibition), for the screening of potential candidate, for avidity comparison or for batch to batch monitoring.



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**List of LECTPROFILE® kit**

Reference	Name	Specificity	Kit Content	Analysis mode
LK01	FimH LECTPROFILE® kit	Mannosylated glycans structures	- 1 x 96 microplate well for fluorescence detection - FimH tracer solution - Streptavidine-DTAF solution	<i>Direct Binding:</i> Up to 10 samples analysed in triplicate at 3 concentrations  <i>Competition Mode:</i> Up to 6 to 8 samples analysed in duplicate
LK02	DC-SIGN & Langerin LECTPROFILE® kit	Mannosylated glycans structures	- 1 x 96 microplate well for fluorescence detection - DC-SIGN&Langerin tracer solution - Streptavidine-DTAF solution	<i>Direct Binding:</i> Up to 7 samples analysed in triplicate at 2 concentrations  <i>Competition Mode:</i> Up to 3 samples analysed in duplicate
LK03	Galectin 3 LECTPROFILE® kit	<i>B</i> -Galactoside glycans structures	- 1 x 96 microplate well for absorbance detection - Galectin-3 tracer solution - Streptavidine-Peroxydase solution - OPD Tablets	<i>Direct Binding:</i> Up to 10 samples analysed in triplicate at 3 concentrations  <i>Competition Mode:</i> Up to 6 to 8 samples analysed in duplicate
LK04E LK04G LK04M	Cells LECTPROFILE® kit (E : eucaryotic cells, G : germinal cells and M : Microbial cells)	Man, GalNAc, Galβ/α, GlcNAc, Fuc, Sialic acid, Rha	- 3 x 96 microplate well for fluorescence detection - CFSE Labelling solution	3 differents cells types analysed in triplicate on 22 lectins
LK05	α2,3_α2,6 LECTPROFILE® kit	Sialic acid (α2,3/α2,6) glycans structures	- 1 x 96 microplate well for fluorescence detection - α2,3 tracer solution - α2,6 tracer solution - Streptavidine-DTAF solution	<i>Direct Binding:</i> Up to 7 samples analysed in triplicate at 2 concentrations  <i>Competition Mode:</i> Up to 3 samples analysed in duplicate
LK06	Galili LECTPROFILE® kit	Galα1,3Gal glycans structures	- 1 x 96 microplate well for absorbance detection - Galili tracer solution - Streptavidine-Peroxydase solution - OPD Tablets	<i>Direct Binding:</i> Up to 10 samples analysed in triplicate at 3 concentrations  <i>Competition Mode:</i> Up to 6 to 8 samples analysed in duplicate
LK07	ASGPR LECTPROFILE® kit	GalNAc glycans structures	- 1 x 96 microplate well for fluorescence detection - ASGPR tracer solution - Streptavidine-DTAF solution	<i>Direct Binding:</i> Up to 10 samples analysed in triplicate at 3 concentrations  <i>Competition Mode:</i> Up to 6 to 8 samples analysed in duplicate
LK08	Glycoprotein LECTPROFILE® kit	Man, GalNAc, Galβ/α, GlcNAc, Fuc, Sialic acid, Rha, Xyl	- 3 x 96 microplate well for fluorescence detection - Biotin Labelling solution - Streptavidine-Peroxydase solution - Dialysis units	3 glycoproteins at 1 concentration or 1 glycoprotein at 3 concentrations in triplicate on 24 lectins

**Table 1.** Description of LECTPROFILE® kits.

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Additionally, and under request, the customization and development of a LEctPROFILE® kit according to your needs is possible. Indeed, we have access to a large choice of lectin from natural or recombinant sources (bacterial and human) that have been already validated in our GLYcoPROFILE® platform.

### **Stability**

Reagents included in the kit are stable for 6 months at +4°C. LEctPROFILE plate is stable for 6 months at -20°C.

**Intended use:** The LEctPROFILE kits are for research use only

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