

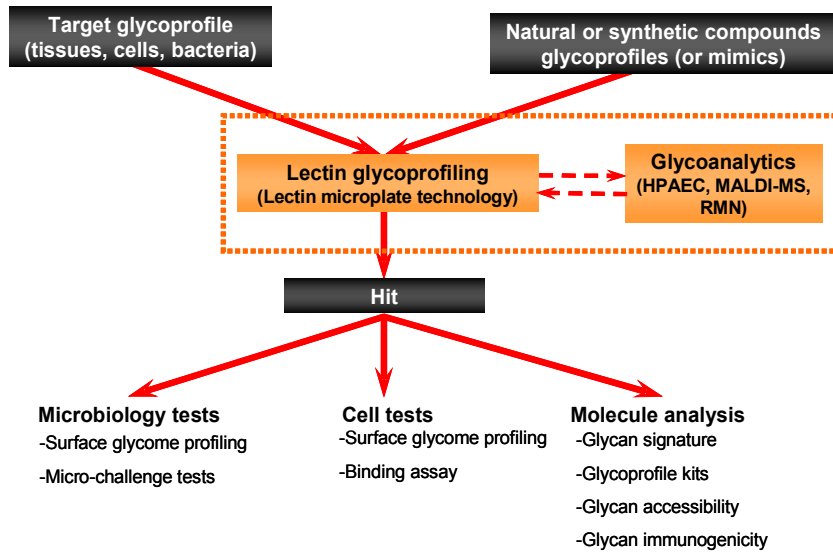


Complex carbohydrate analysis - Glycan signatures

GLYcoDiag is a French company specialized in **glycobiology and glycoanalysis** services and products for the biotech, pharma, veterinary, cosmetic and diagnostic industries. Our unique experience provides the services and products needed to speed up your projects in **glycoconjugate analysis and control, therapeutic recombinant glycoprotein development, biomarker identification and drug discovery.**

Strategy

GLYcoDiag technology platform combines **glycoprofiling and glycoanalytics methods** for determination of your target molecules and cells.



Lectin microplate technology

With our lectin glycoprofiling technology, you can:

Identify and use **glycan signatures of your therapeutic recombinant glycoproteins** for in-process reference sample comparison, batch-to-batch monitoring, glycoform specific profiles or immunogen glycan detection.

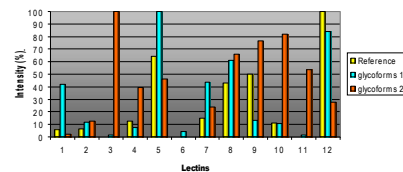
Search and identify **new glycosylation-related drugs** by screening with an innovative range of lectins.

Discover new biomarkers or study specific **glycosylation signatures of identified biomarkers.**

Run test trials of glycan analysis in research, development projects and quality control process.

Develop a **user-specific kit that can be transferred to your laboratory and easily run on your own plate reader.**

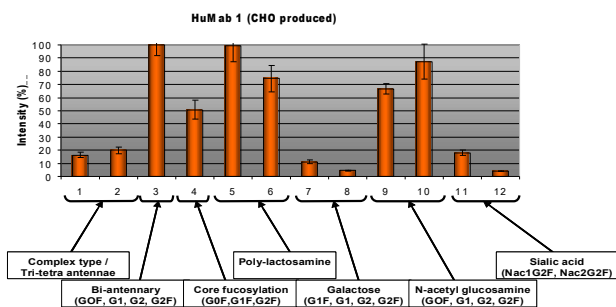
➔ **Glycoform-specific profiles / Batch-to-batch monitoring:** Improve your analytics with complementary and relevant method related to conformation, glycan accessibility and overall glycan structures.



➔ **In-process monitoring without prior purification.** Lectin glycoprofile allows detection of minor changes in glycoform composition.

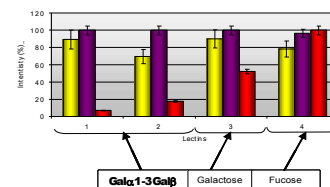
➔ **Immunogen glycan detection:** The combination of glycoanalytics and lectin glycoprofile methods allows a precise detection and/or quantification of your glycoprotein in terms of unwanted glycans.

➔ **Reference sample comparison:**



Examples :

➤ **Gal α 1-3Gal β 1-3/4GlcNAc β -** (porcine xenotransplantation antigen)



Gp = Glycoprotein containing Gal α 1-3Gal β 1-3/4GlcNAc β -motifs.

Gp + N = Neuraminidase treated glycoprotein.

Gp + N + G = Neuraminidase and α -galactosidase treated glycoprotein.

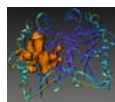
➤ **Neu5Gc:** Detection/quantification by HPAEC and specific lectins glycoprofiling.

➤ **α 1-3 fucose ; β 1-2 xylose** (plant glycans). Detection/quantification after exoglycosidase digestion by HPAEC and lectin glycoprofiling.

Application fields / customers

Pharmaceutics, cosmetics, veterinary

Drug discovery, vaccines, therapeutic recombinant protein development and in-process quality control.



Health Diagnostics, food-hygiene, environment

Discovery of relevant biomarker. Glycosylation-based test development. Polysaccharide analysis of biofilms.



Food Industry, Agriculture, cosmetics

Quality control (raw material up to end products). Metabolite monitoring.

