



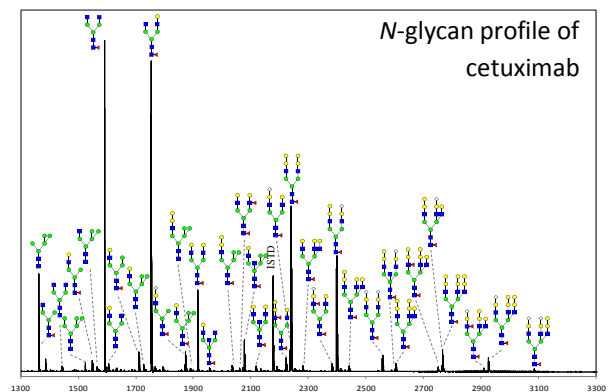
S-BIO GlycanMap® Xpress™ Assay Services

Addressing the important challenge of high-throughput glycan analysis in the development of biotherapeutics & vaccines

The GlycanMap® Xpress™ assay harnesses the power of S-BIO's proprietary core capabilities in high-throughput glycan analysis in a new streamlined and cost-effective process to generate reliable, rapid and reproducible data on *N*-linked glycans. Our proprietary GlycanMap® platform is a fully automated high-throughput system that combines chemoselective glycan enrichment with MALDI-TOF mass spectrometry to generate glycoform profiles with qualitative and quantitative information

Leverage the advantages of the GlycanMap® Xpress™ assay for cell line selection & early process development

- Fully automated 96-well high-throughput platform for rapid, reproducible results
- High-resolution mass spec data resolves glycan species and facilitates accurate identification of sugar composition
- Simultaneous detection and quantitation of both neutral and acidic *N*-linked oligosaccharides, from high-mannose type to highly sialylated, multi-antennary glycans
- Detection of glycan modifications – *O*-acetylation, sulfation, phosphorylation, etc
- Simple report format with downloadable data listing *N*-glycans present along with the concentration, monosaccharide composition and proposed structure for each species detected



The GlycanMap® Xpress™ assay provides broad utility across a range of applications

- Batch-type process especially well-suited to the analysis of large sample sets
- Suitable for glycoform analysis in mammalian systems and engineered systems producing PNGase F-susceptible glycans
- Compatible with MAbs and other glycoproteins, either in purified form or in serum-free media

S-BIO provides full follow-up services and customized projects including *O*-glycan analysis, glycan biosynthesis pathway analysis, sample pre-preparation (where needed) and MS-MS analysis.

<i>N</i> -linked Glycans Detected in Etanercept			
m/z	Composition (Hex HexNAc Fuc Neu5Ac Neu5Gc)	Proposed Structure	Conc. (pmol/mg)
1362.53	5 2 0 0 0		881
1444.59	3 4 0 0 0		313
1590.65	3 4 1 0 0		7131
1606.65	4 4 0 0 0		243
1752.72	4 4 1 0 0		5561
1768.72	5 4 0 0 0		1230
1914.77	5 4 1 0 0		2545
2057.82	4 4 1 1 0		1158
2073.83	5 4 0 1 0		6017
2219.90	5 4 1 1 0		7967
2378.92	5 4 0 2 0		1336
2524.98	5 4 1 2 0		3044

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