

## CERTIFICATE OF ANALYSIS

### iGlycoMab Stable Isotope Labeled Glycan Standard

Cat. #: GS0010b

Lot: A024

Package size: 0.5 mg

**Description** iGlycoMab is a highly purified murine IgG2b monoclonal antibody whose glycans are labeled with the stable isotope ( $^{15}\text{N}$ ).

iGlycoMab was developed to be used as an internal standard for the quantitation of glycoprotein glycans, and is well suited as a standard for monoclonal antibodies as well as Fc-fusion therapeutics because of the similarity in glycan structure and amino acid sequence near the Fc glycosylation site.

Because iGlycoMab is a full length glycoprotein standard its use compensates for the systematic errors associated with parallel sample handling, and thus provides superior results in terms increased accuracy and precision compared to traditional methods.

**Tested applications** Mass spectrometry

**Form** Liquid, frozen in PBS, pH 7.5.

**Storage** Frozen ( $-20^{\circ}\text{C}$  or lower). Store at  $4^{\circ}\text{C}$  when thawed or aliquot and refreeze.

#### Lot specific data

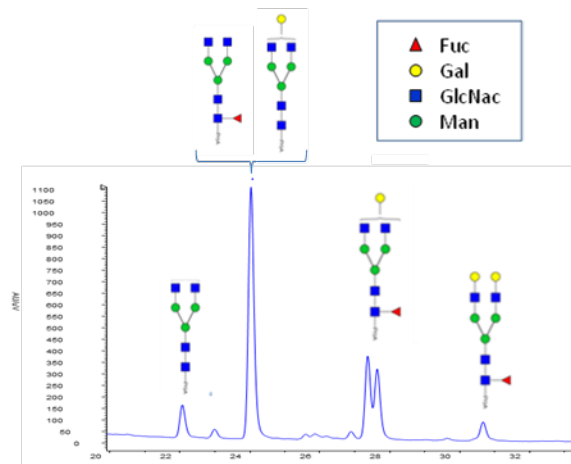
Test	Result	Specification
% of glycans that are typical IgG Fc N-glycans (F1A2, F1A2G1, F1A2G2, A2, A2G1, A2G2)	99%	$\geq 90\%$
Concentration (A280, ext. coefficient = 1.4)	1.0 mg/ml	Between 0.5 and 1.5 mg/ml
Label incorporation by mass spectrometry (% of glycan nitrogens that are $^{15}\text{N}$ labeled)	95%	$\geq 90\%$

Structures and relative quantities of glycans were assessed by selective reaction monitoring.

Structure	Percent of major glycans
F1A2	30%
F1A2G1	45%
F1A2G2	9%
A2	4%
A2G1	11%
Minor glycans	1%

## Example data

Glycans were released by PNGase F, labeled with procainamide and analyzed by LC with UV detection (typical chromatogram shown below).



## Notes:

The sequence of the tryptic fragment bearing the glycan is EDYNSTIR or EDYNSTLR.