



# LabChip | ProfilerPro

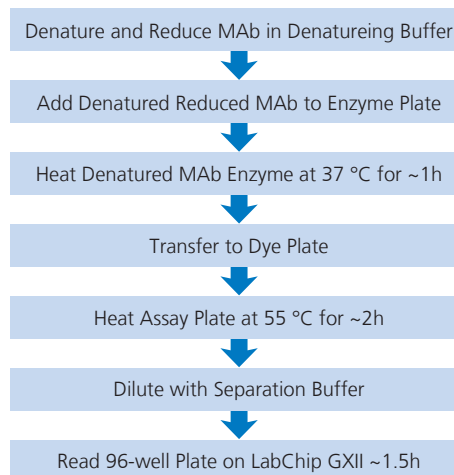
## High Throughput Screening of Neutral Glycans

The ProfilerPro Glycan Profiling Assay designed for the LabChip GXII microfluidic system provides a fast, economically efficient means to assess the main glycoforms of IgG and related proteins. Caliper offers a complete set of 96 well plates and microfluidic assay components to enable the rapid digestion, dyeing, and identification of main glycans (N-Glycans) in the Fc region of recombinant monoclonal antibodies (mAb).

The ProfilerPro Glycan Profiling Screening Assay is 60-70% faster, and 10-60% less expensive than competing technologies. Profiling of 96 samples can be performed in as little as half of a day.

### Features

- Rapidly profile neutral N-linked glycans
- Capacity to profile 96 samples at a time in a matter of a few hours
- Easily run 24 to 96 samples
- Complete solution including denaturing, digestion, labeling, and analysis
- Digital format facilitates review, export, and archiving of data
- Flexible data display options - Results shown in your choice of virtual gel, electropherogram graph, or tabular formats
- RFID signature confirms compatibility of chip and assay selection



## Applications

Glycan Screening: analysis of the glycosylation patterns of recombinant/monoclonal antibodies (MAb)

Fast separation time—less than 50 seconds per sample—makes this system valuable for use in high throughput screening of antibody glycosylation patterns in :

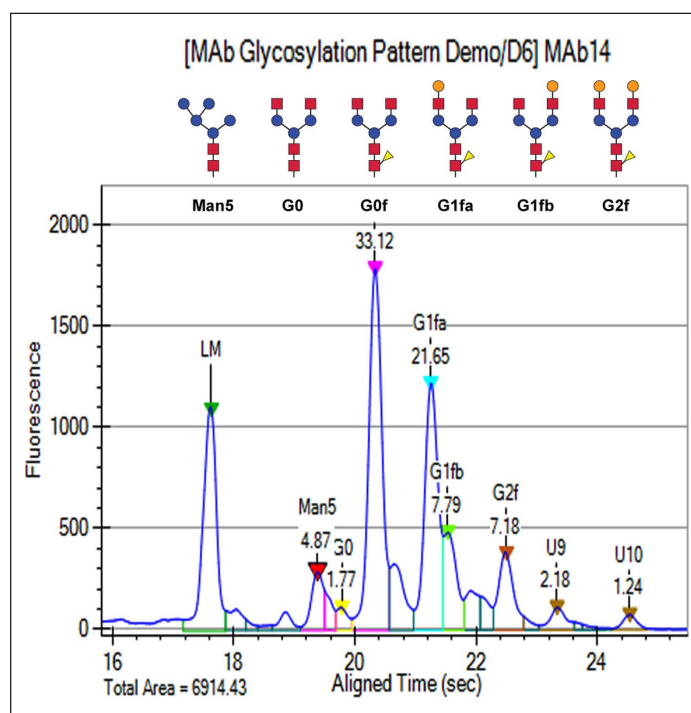
- Bio-similar evaluation
- Bio-better evaluation
- Early stage biotherapeutic development

LabChip GXII analysis gives resolution sufficient to quantify the relative abundance of the major glycan types found on antibodies.

- Neutral N-linked glycans
  - Biantennary partially fucosylated complex type.
  - High-mannose type oligosaccharides

## ProfilerPro Glycan Profiling

Amount of sample required:	8ul with concentration range of 1.25mg/ml to 7.5mg/mL (10µg to 60µg of MAb total)
Reproducibility of %area:	CV < 10% for a peak >= 2.5% of total glycan
Limit of detection:	1ng of G0f standard (Smallest amount of labeled G0f standard that can be detected)
Deglycosylation:	>95% of all N-Linked glycans will be released from MAb
Usable size range:	Appropriate for neutral glycans found on MAbs. Some charged glycans may run outside of our usable range
Sizing reproducibility:	CV < 2.5%
Carryover:	< 0.5% of previous sample can be detected in following sample
Sample prep, chip prep, and analysis time:	< 8 hours for a 96-well plate
Chip sample capacity per prep:	192 samples before chip needs to be reloaded with fresh gel
Chip sample capacity per chip lifetime:	384 samples before chip needs to be replaced



## Ordering Information

ProfilerPro Glycan Release and Labeling Kit	760523
HT High Resolution LabChip	760524
HT Glycan Reagent Kit	760525
GX Version 2.2 or Newer Software Required	127183



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