N-Glycan Kit

Simple · Fast · Accurate N-Glycan analysis

Released, labeled, purified and ready for HILIC-FLR / LC-MS in under 30 minutes.

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Labeling Chemistry & Total Workflow Time

Labeling method	Label time	Platform	Total analysis
Traditional 2-AB	1–4 h	—	2–3 days
2-AB Express	1 h	Agilent	1.5 h
InstantPC	—	Agilent	1 h
RapiFluor (RFMS)	**5 min**	**Waters / Krishgen**	**0.5 h**

RapiFluor-class speed

A 5-minute rapid-tagging chemistry delivers the fastest release-to-label workflow in the comparison, with full analysis turnaround in roughly half an hour.

Krishgen Fast N-Glycan kit — a cost-effective, performance-equivalent alternative to the Waters RapiFluor kit.

THE SCIENCE

N-linked Glycosylation, decoded

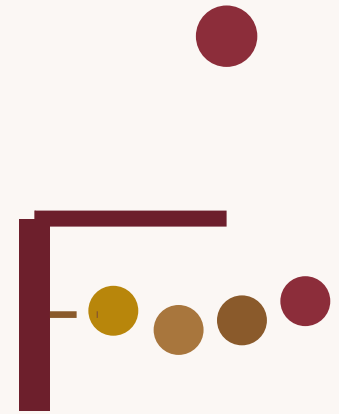
N-glycans are branched sugar chains attached at asparagine (Asn-X-Ser/Thr) residues. On therapeutic antibodies they sit in the Fc CH2 domain and directly shape effector function, half-life and immunogenicity — which is why glycan profiling is a release-critical CQA.

Asn
attachment site

Fc
CH2 glycosylation

CQA
critical quality attr.

Schematic: glycosylated IgG



Fc N-glycan: GlcNAc · Man · Gal · Sia branches

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Four Modules, One Streamlined KIT

Release module

PNGase F enzyme + buffer, surfactant for denaturation, and an IgG positive control for process verification.

Labeling module

Rapid fluorescent label reagent with anhydrous DMF for fast, reproducible tagging of released glycans.

Purification module

HILIC-SPE 96-well plate, elution and dilution buffers tuned for high glycan recovery.

Collection module

8-tube strips & lids, collection plate and waste plate for the full release-to-elute flow.

Ordering information

N-Glycan Kit (Single-Column) 24T	**KPGF-400-1**
N-Glycan Kit · 24 tests	**KPGF-400-2**
N-Glycan Kit · 96 tests	**KPGF-400-3**

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Sample Prep Done in >30 minutes

1. Denature

90 °C 3 min → RT 3 min

2. Release

PNGase F, 50 °C 5 min

3. Label

Rapid tag, RT 5 min

4. Purify

HILIC-SPE, 10 min

5. Analyze

HILIC-FLR / LC-MS

Total hands-on prep **< 30 min** before instrument analysis

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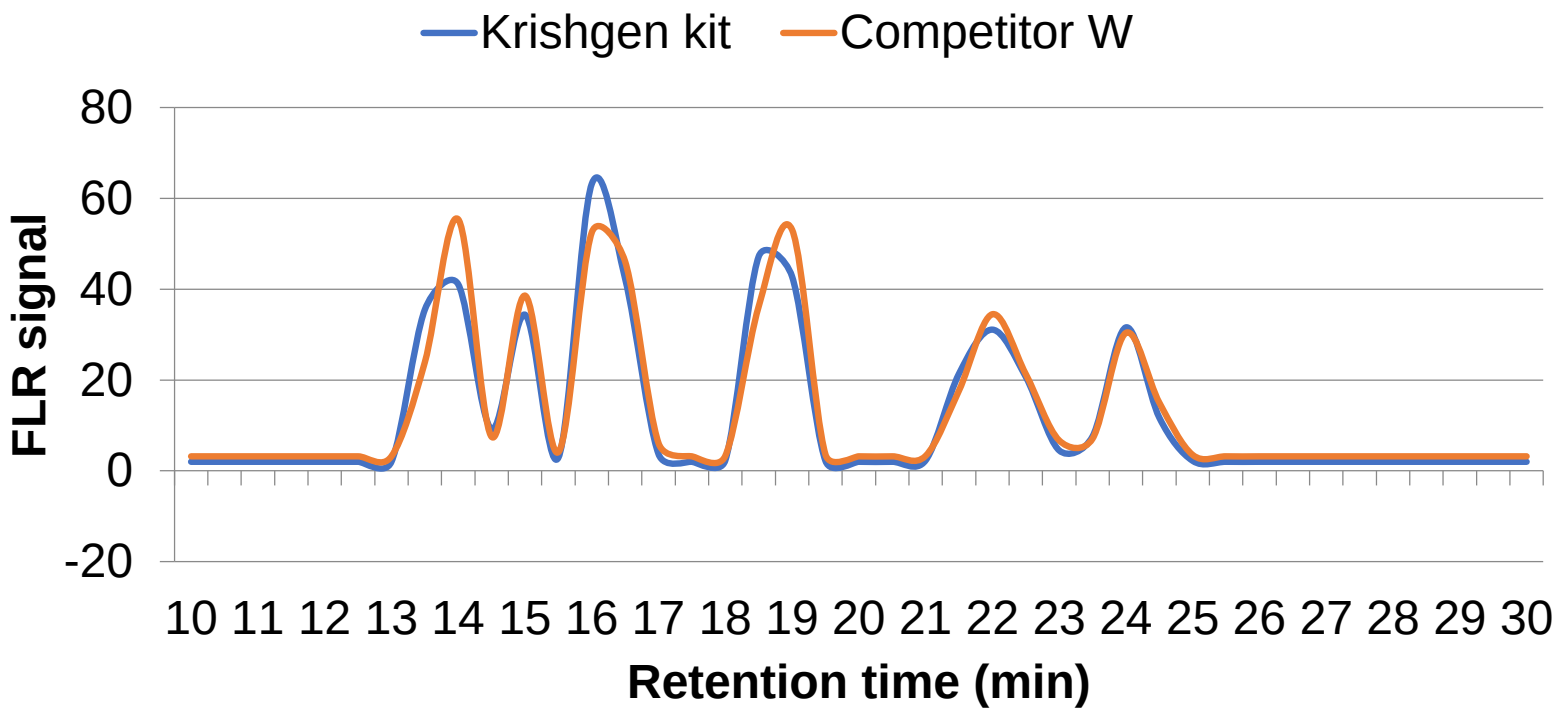
Comparable Retention Time & Response



What you're seeing

- Peak retention times overlay within run-to-run tolerance.
- Relative fluorescence intensities track the reference profile.
- MS response intensity is comparable across major glycoforms (F(6)A2, F(6)A2G(4)…).

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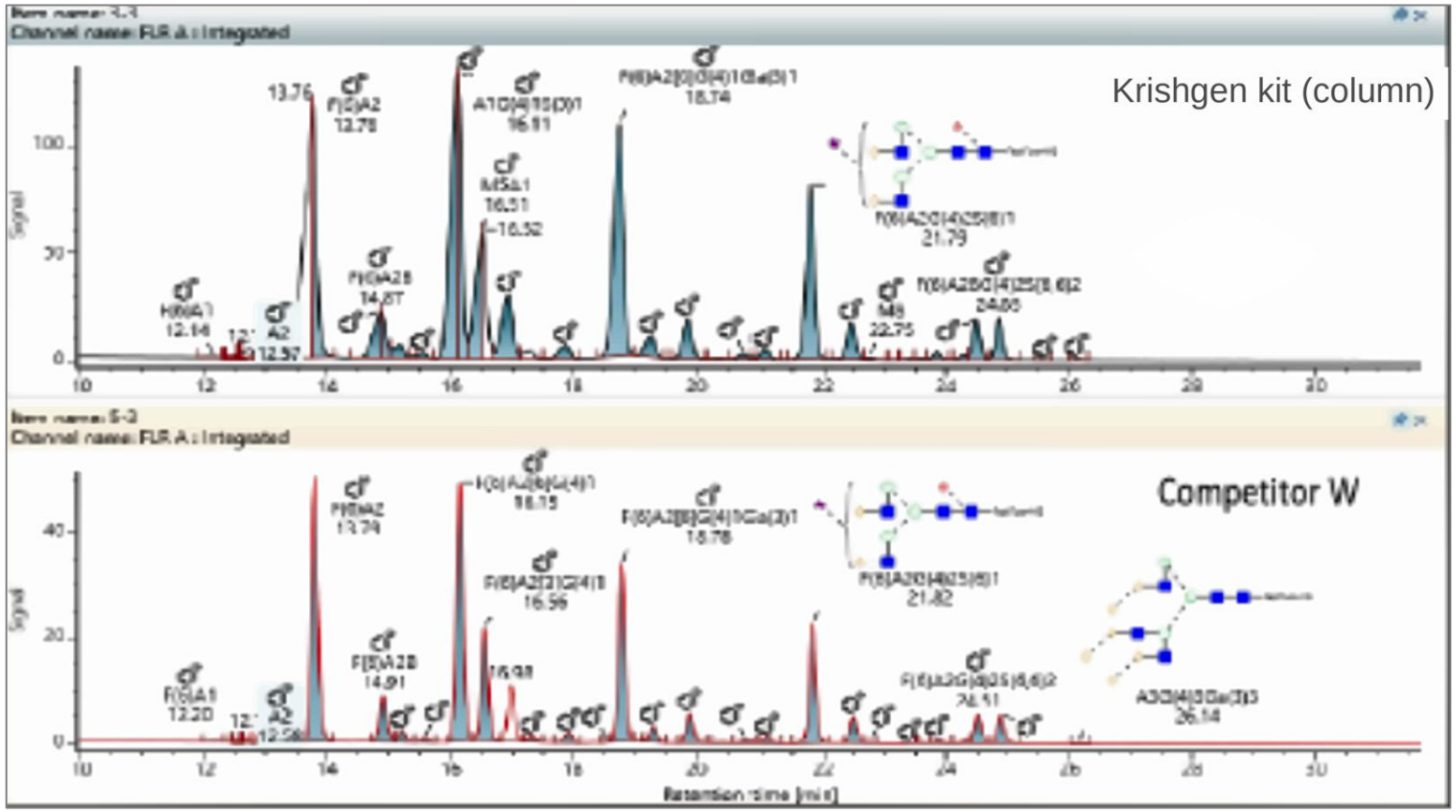
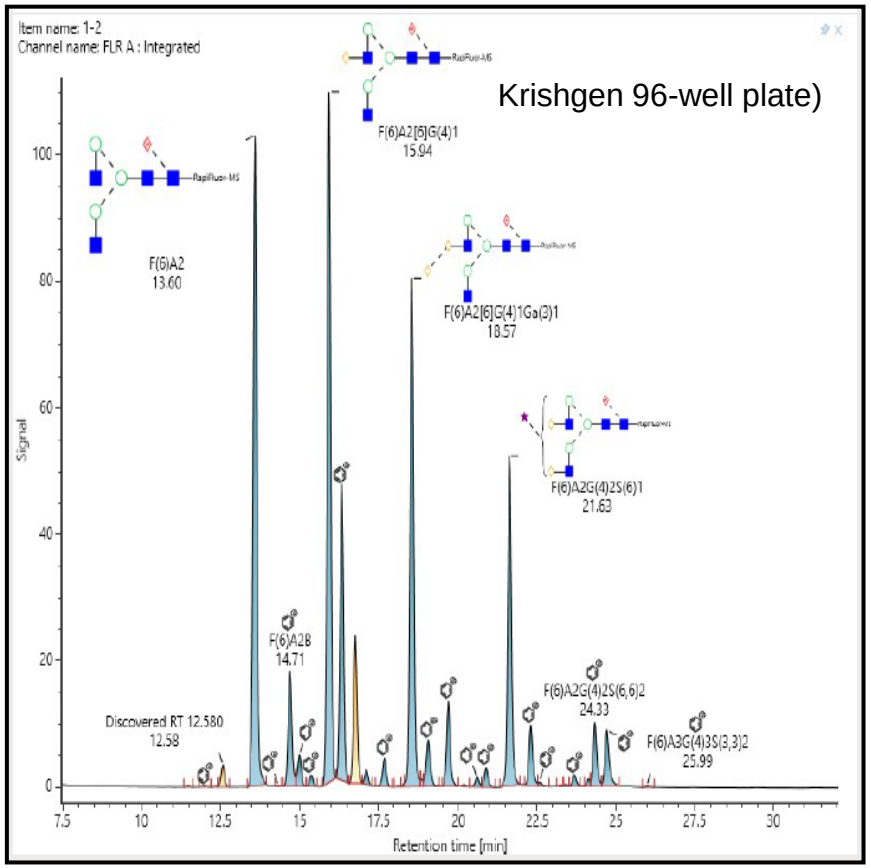
Comparable Retention Time & Response





The retention time of the peak, the fluorescence intensity, and mass spectrum response intensity is comparable to the competitor.

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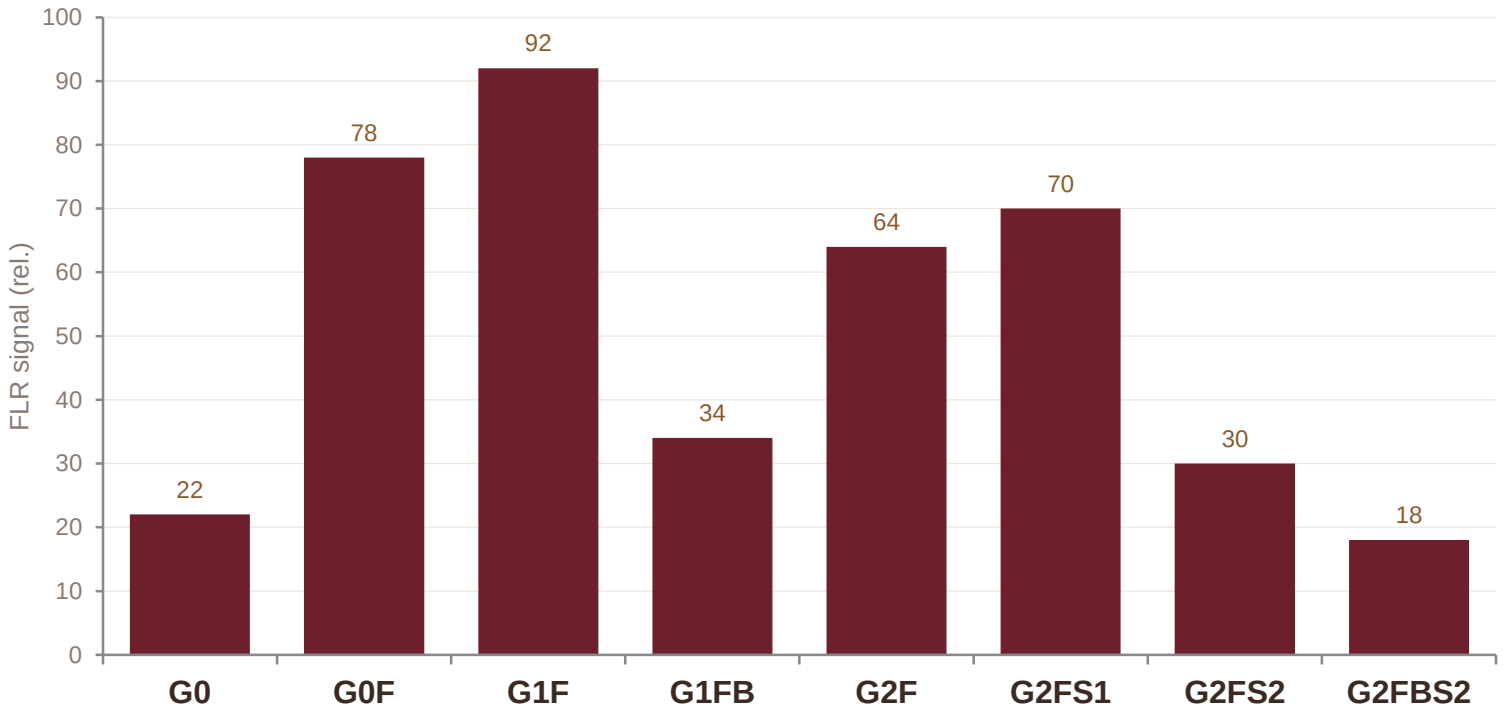
Accurate, well-resolved Glycoform Markers



Marker fidelity

Krishgen IgG positive control profiled on a Waters ACQUITY RDa detector resolves the full G0–G2 glycoform ladder, giving stable retention-time anchors for confident peak assignment across suppliers.

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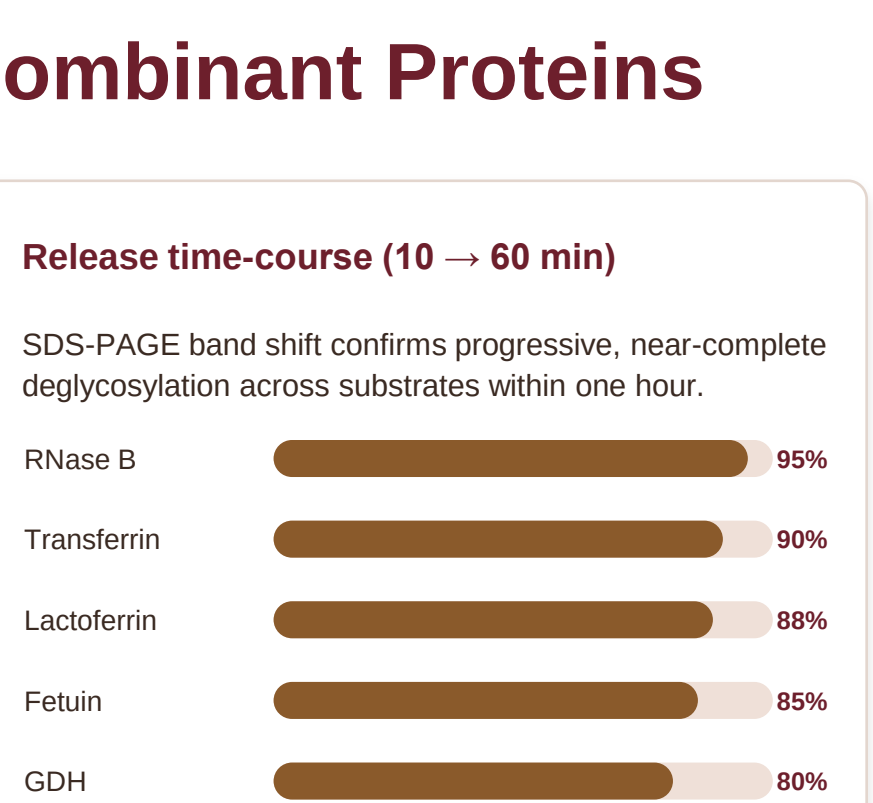
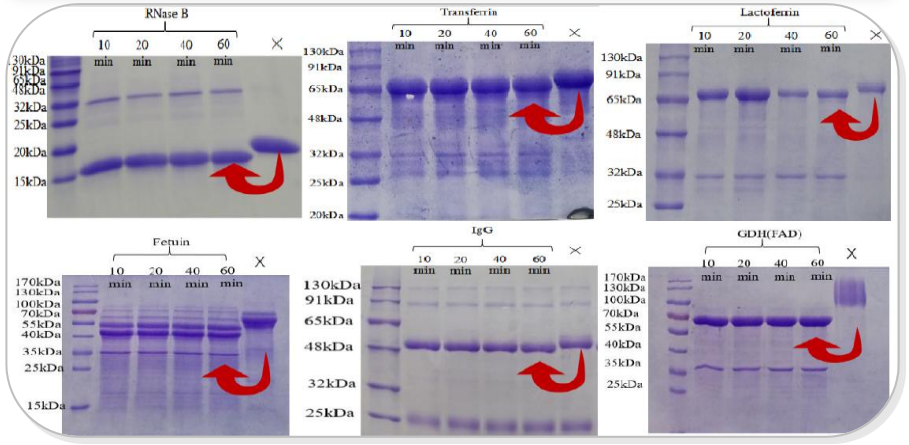
Efficient Release from Native & Recombinant Proteins

Glycoprotein	Source	N-glycan chains
RNase B	Bovine	1
Transferrin	Human	2
Lactoferrin	Human	3
Fetuin	Bovine	3 (+ O-glycans)
IgG	Human	2
GDH (FAD)	P. pastoris	9

Release time-course (10 → 60 min)

SDS-PAGE band shift confirms progressive, near-complete deglycosylation across substrates within one hour.





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KEY FEATURES OF OUR KIT

01

Simple & Fast

Complete sample prep in 30 minutes — a cost-effective alternative to the Waters RapiFluor solution.

02

Consistent & Accurate

Comparable fluorescence and mass-spectrometry response intensity versus the reference kit.

03

High Capability

Efficient cleavage of N-glycans from a wide range of native and recombinant glycoproteins.

04

High Flexibility

Scales from 1 to 96 samples — single-column format plus 24- and 96-well plates to choose from.