Certificate of Analysis

LudgerPure™ 2AB Labeled NGA2F Glycan

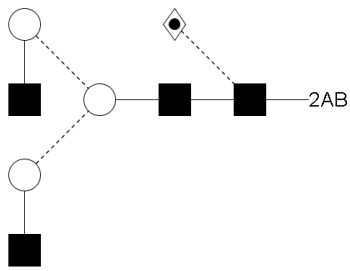
Cat. #: CAB-NGA2F-01 Batch: B82E-05

Size: approx. 100 pmol Expiry Date: 14 Feb 2023

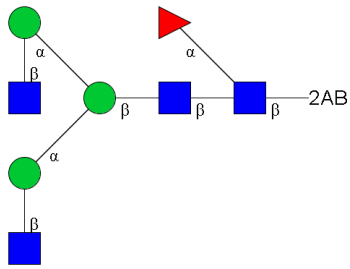
Alternative Names

FA2, G0F

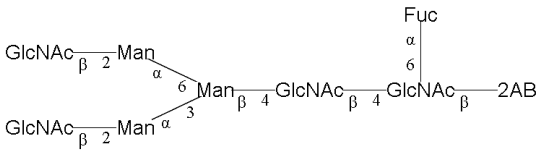
Glycan Structure



Oxford Notation



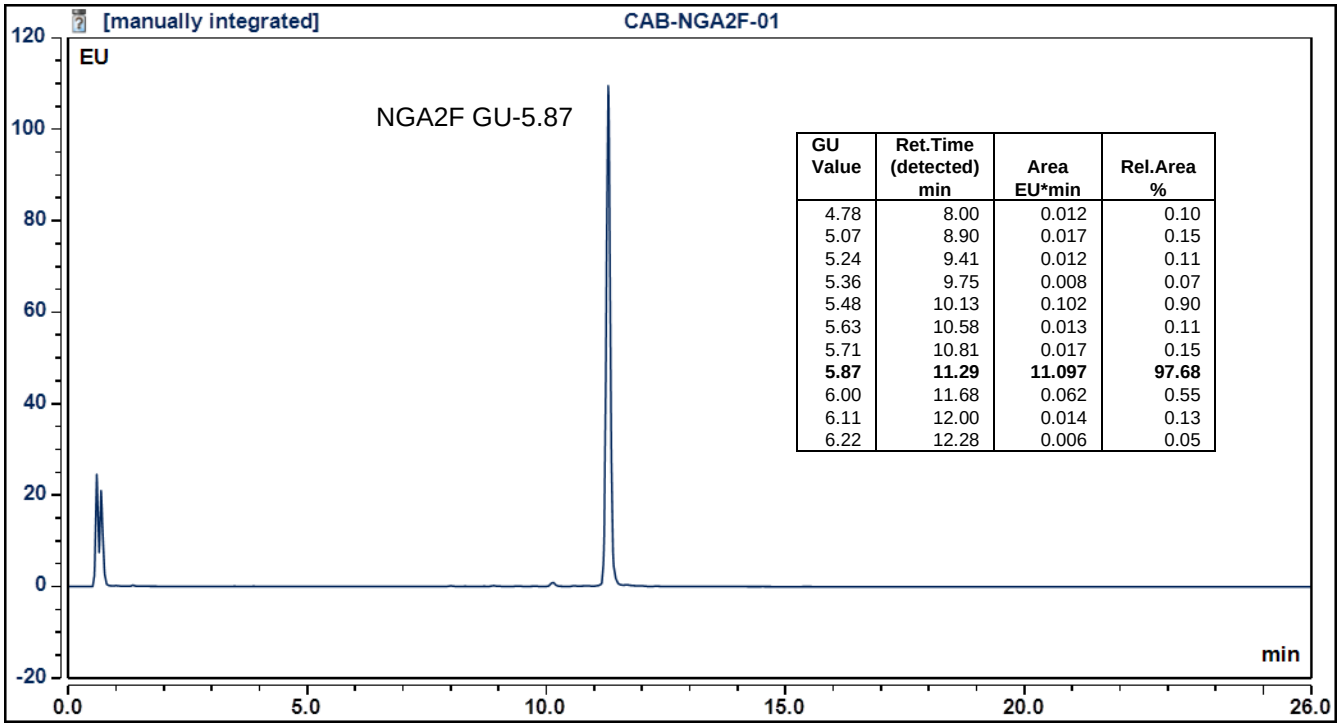
CFG Notation



Text Notation

Purity: 97.7% 2AB labeled NGA2F glycan as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 115 pmols NGA2F glycan – Test performed 15 Feb 2018.



GU Value	Ret.Time (detected) min	Area EU*min	Rel.Area %
4.78	8.00	0.012	0.10
5.07	8.90	0.017	0.15
5.24	9.41	0.012	0.11
5.36	9.75	0.008	0.07
5.48	10.13	0.102	0.90
5.63	10.58	0.013	0.11
5.71	10.81	0.017	0.15
5.87	**11.29**	**11.097**	**97.68**
6.00	11.68	0.062	0.55
6.11	12.00	0.014	0.13
6.22	12.28	0.006	0.05

Figure 1: *HILIC HPLC profile of 2AB labelled NGA2F glycan (see method conditions below) (Cat. #: CAB-NGA2F-01, Batch B82E-05).*

**NGA2F glycan structure identified by MALDI, MS & HPLC (GU value comparison to GlycoBase). This structure is drawn according to the scheme developed by Oxford-Dublin Glycobiology Laboratory (see Fig 2).*

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2-AB NGA2F peak seen above, eluted at 11.29 minutes, under the following conditions:

Column: Waters BEH Glycan 1.7µm column (150mm)

Flow: 0.56mL/min.

Temperature: 60 °C

Solvent A: 50mM ammonium formate pH 4.4 **Solvent B:** 100 % acetonitrile

Gradient:

Time (min)	%B
0.0	78.0
1.5	78.0
24.8	58.0
25.8	40.0
25.9	78.0
31.0	78.0

Detector: Dionex FLD-3000

Excitation wavelength: 250 nm

Emission wavelength: 428 nm

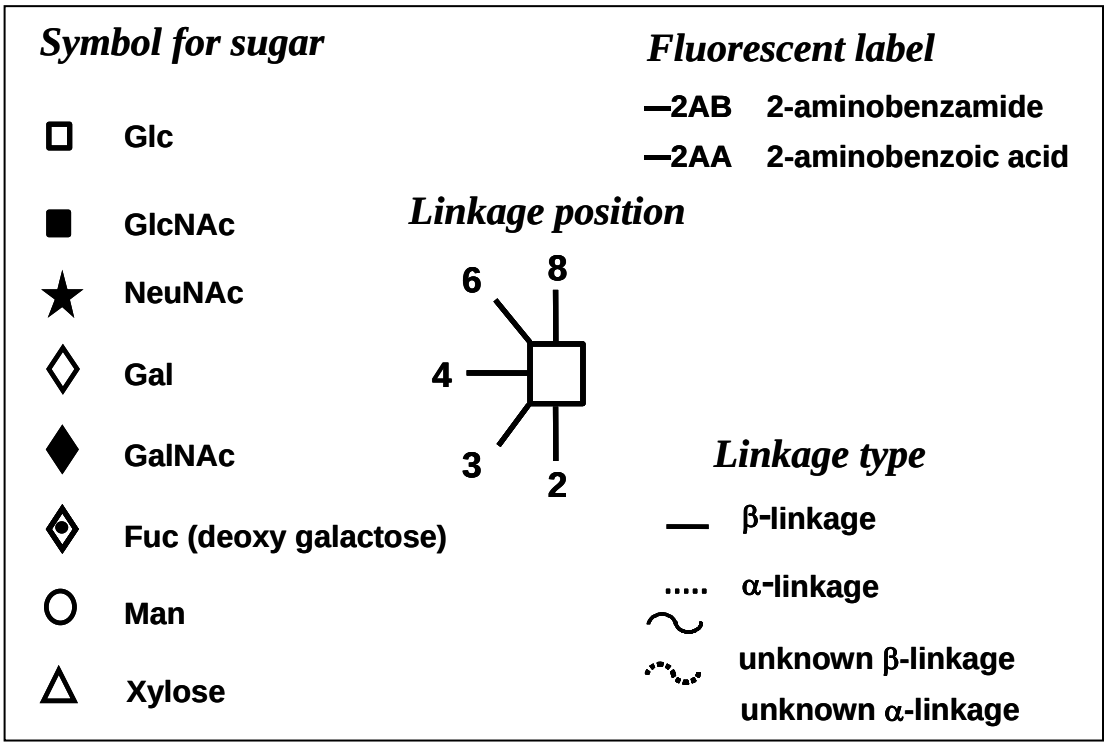

Figure 2: *GlycoBase glycan structure key.*