Certificate of Analysis

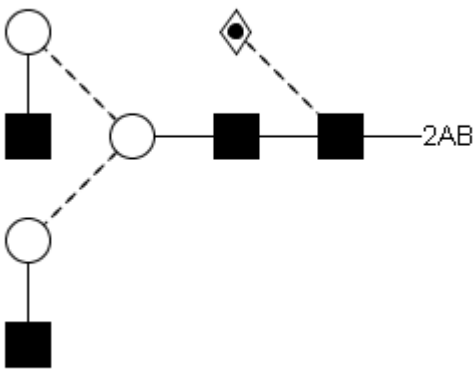
LudgerPure™ 2AB Labeled NGA2F Glycan

Cat. #: CAB-NGA2F-01 Batch: B39G-01 Size: approx. 100 pmol

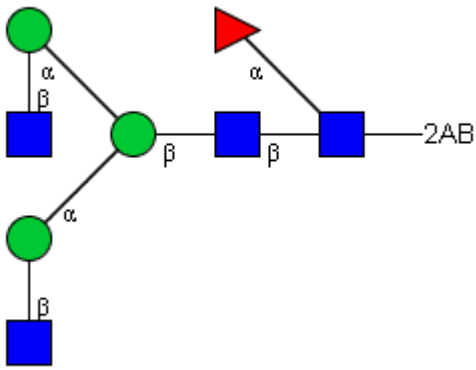
Alternative Names

FA2

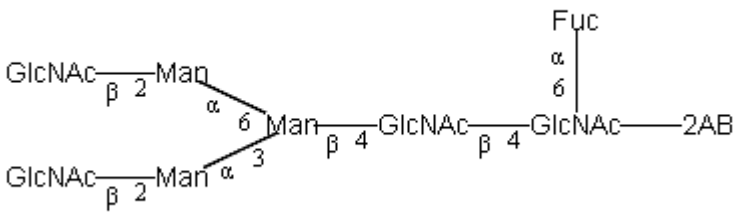
Structure



Oxford Notation



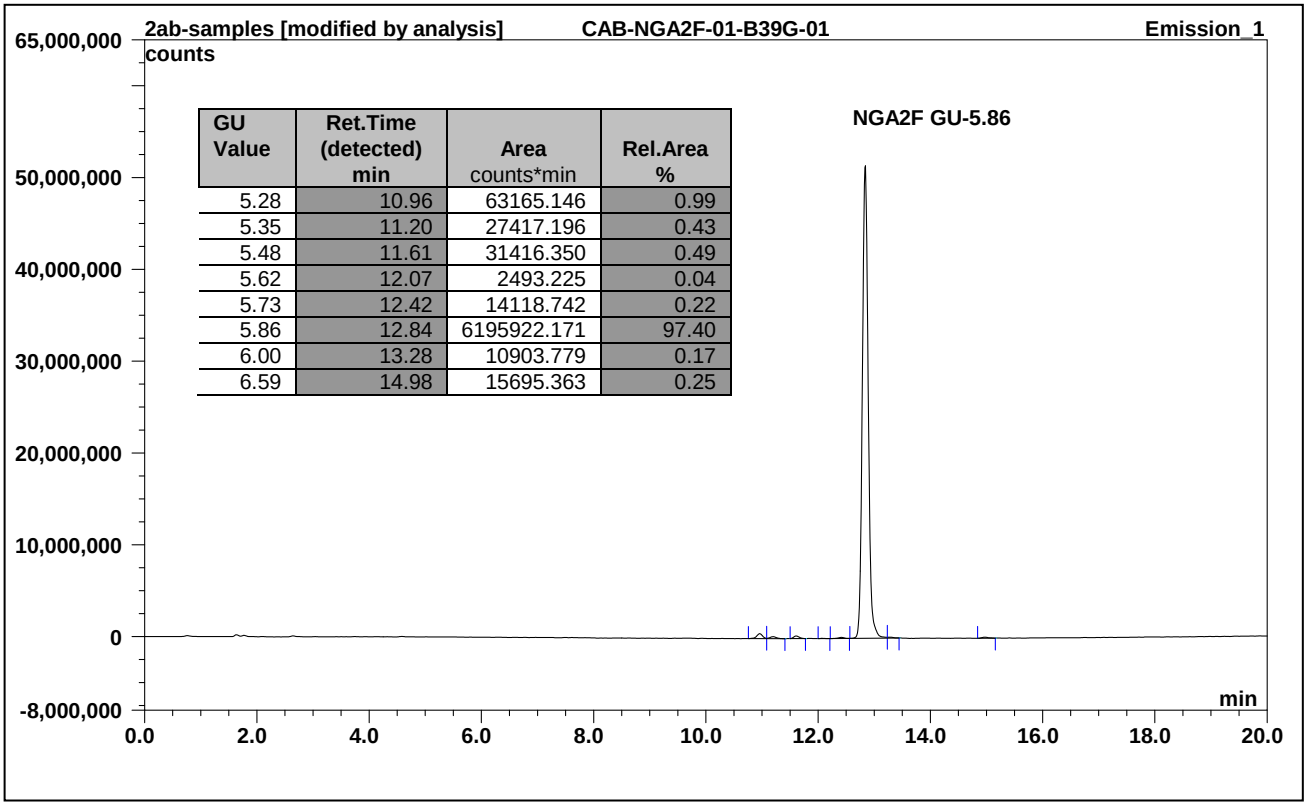
CFG Notation



Text Notation

Purity: 97.4% 2AB labeled NGA2F glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 109.5 pmols NGA2F glycan – Test performed 20 Sep 2013.



GU Value	Ret.Time (detected) min	Area counts*min	Rel.Area %
5.28	10.96	63165.146	0.99
5.35	11.20	27417.196	0.43
5.48	11.61	31416.350	0.49
5.62	12.07	2493.225	0.04
5.73	12.42	14118.742	0.22
5.86	12.84	6195922.171	97.40
6.00	13.28	10903.779	0.17
6.59	14.98	15695.363	0.25

Figure 1: HILIC HPLC profile of 2AB labelled NGA2F glycan (see method conditions below) (Cat. #: CAB-NGA2F-01, Batch B39G-01).

**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).

2-AB NGA2F peak seen above, eluted at 12.8 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

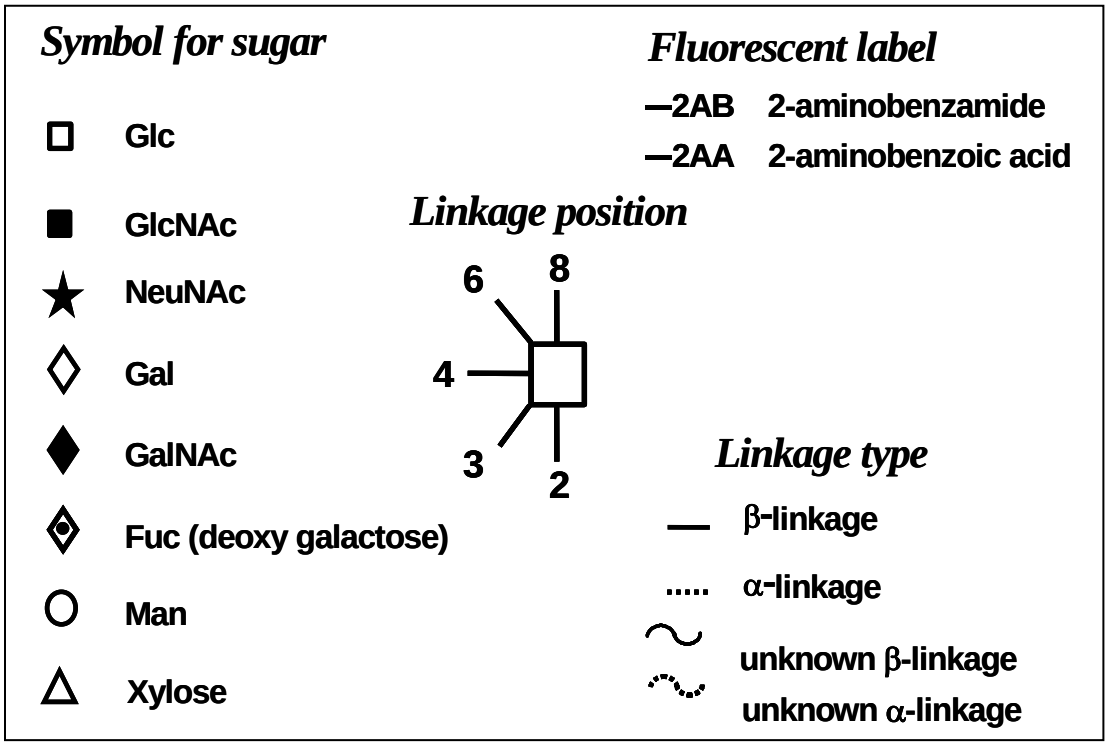


Figure 2: GlycoBase glycan structure key.