Certificate of Analysis

LudgerPure™ 2AA Labeled A1F Glycan

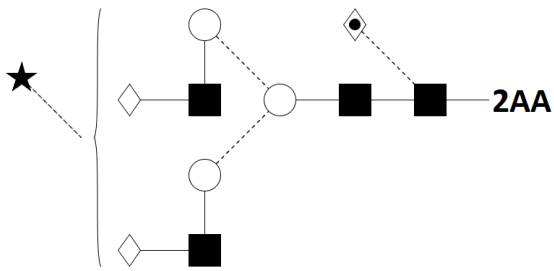
Cat. #: CAA-A1F-01 | Batch: B166-01

Size: approx. 100 pmol | Expiry Date: 28 Oct 2025

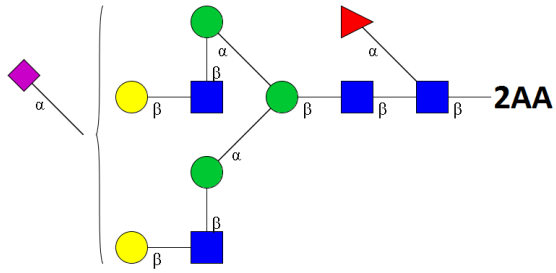
Alternative Names

FA2G2S1 G2FS1

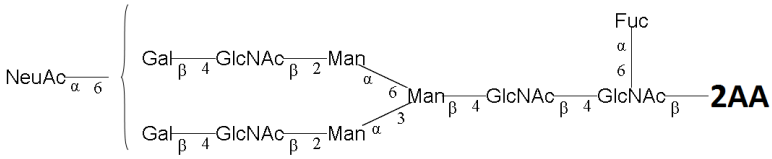
Glycan Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 90.9% 2AA labeled A1F glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 103 pmols A1F glycan – Test performed 28 Oct 2020

	GU	Retention Time	Area	% Area
1	1.97	2.069	16925	0.13
2	3.59	5.591	19798	0.15
3	7.20	15.230	25854	0.20
4	7.45	15.815	299844	2.33
5	7.59	16.119	38196	0.30
6	7.74	16.454	23355	0.18
7	7.93	16.878	36436	0.28
8	8.09	17.204	14329	0.11
9	8.21	17.458	28157	0.22
10	8.30	17.639	110525	0.86
11	8.52	18.100	35824	0.28
12	8.66	18.370	11725236	90.93
13	9.01	19.045	229098	1.78
14	9.11	19.240	265761	2.06
15	9.48	19.915	25876	0.20

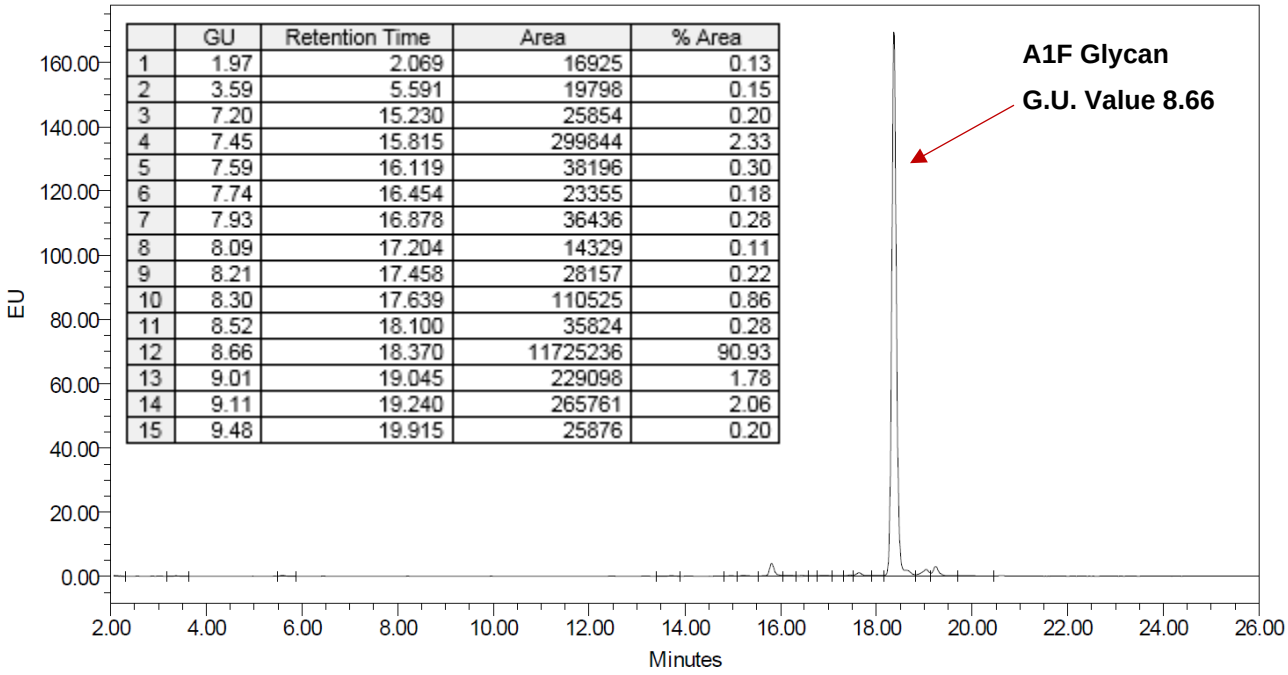


Figure 1: *HILIC HPLC profile of 2AA labelled A1F glycan (see method conditions below) (Cat. #: CAA-A1F-01, Batch B166-01).*

**A1F 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-AA A1F peak seen above, eluted at 18.4 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: Fluorescence

Excitation wavelength: 250 nm

Emission wavelength: 428 nm

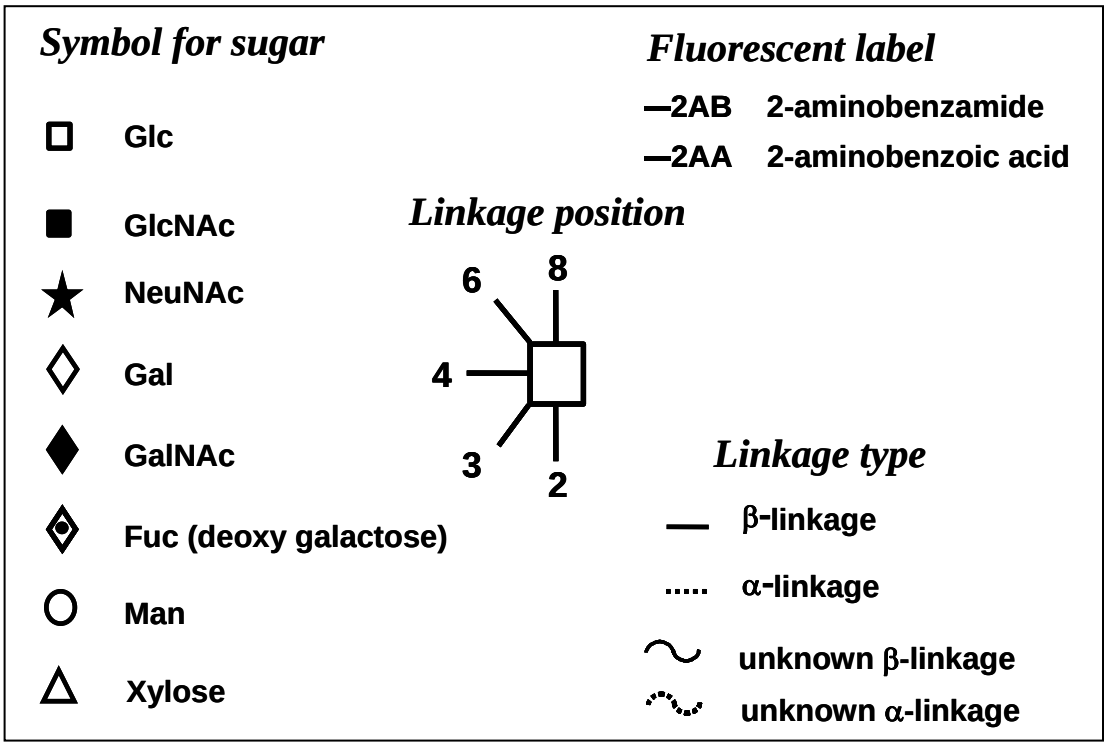


Figure 2: *GlycoBase glycan structure key.*