

## Certificate of Analysis

### LudgerPure™ 2AA Labeled NGA3 Glycan

Cat. #: CAA-NGA3-01

Batch: B927-03

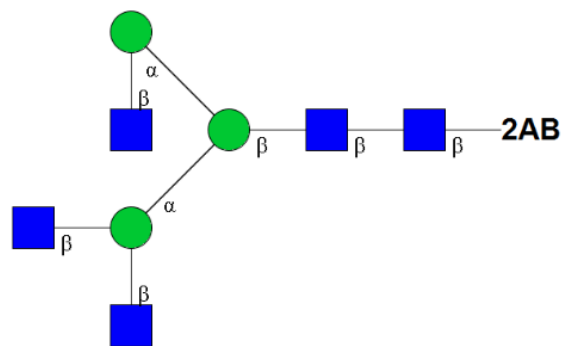
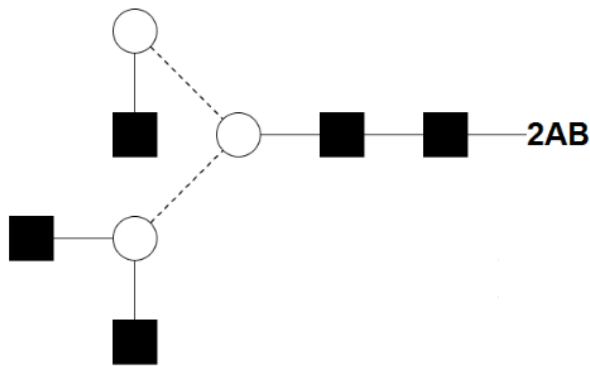
Size: approx. 100 pmol

Expiry Date: 06 Feb 2029

#### Alternative Names

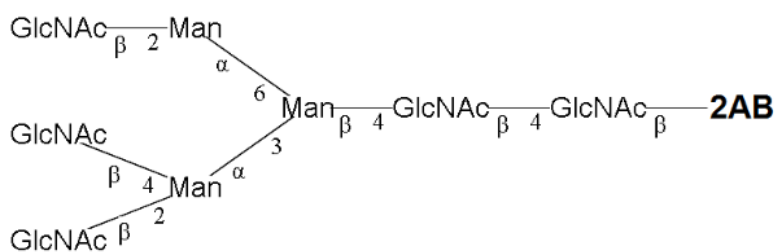
A3

#### Glycan Structure



*Oxford Notation*

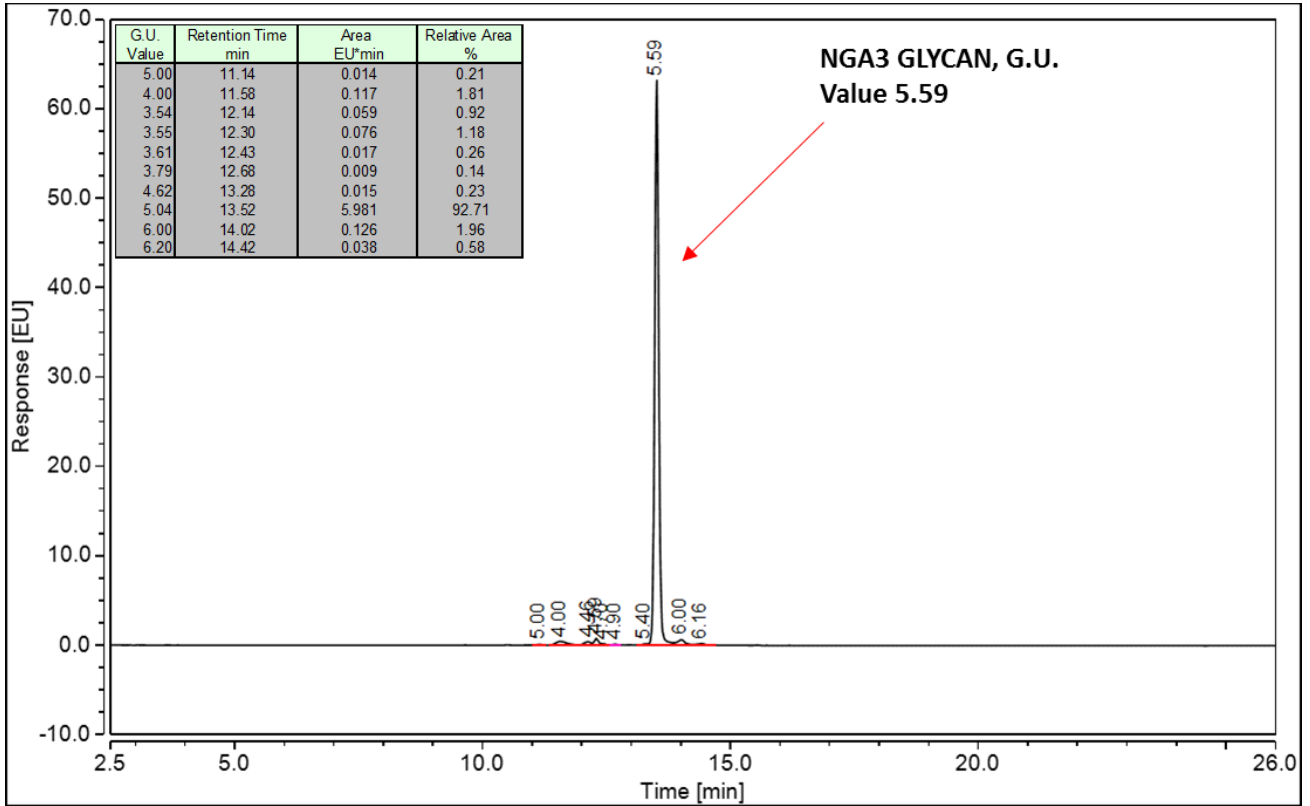
*CFG Notation*



*Text Notation*

**Purity:** 92.7% 2AA labeled NGA3 glycan, as assessed by HPLC - see Fig 1.

**Amount:** Sample vial determined to contain 106.3 pmols NGA3 glycan – Test performed 07 Feb 2019.



**Figure 1:** HILIC HPLC profile of 2AA labelled NGA3 glycan (see method conditions below) (Cat. #: CAA-NGA3-01, Batch B927-03).

\*NGA3 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).

**2AA NGA3 peak seen above, eluted at 13.5 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

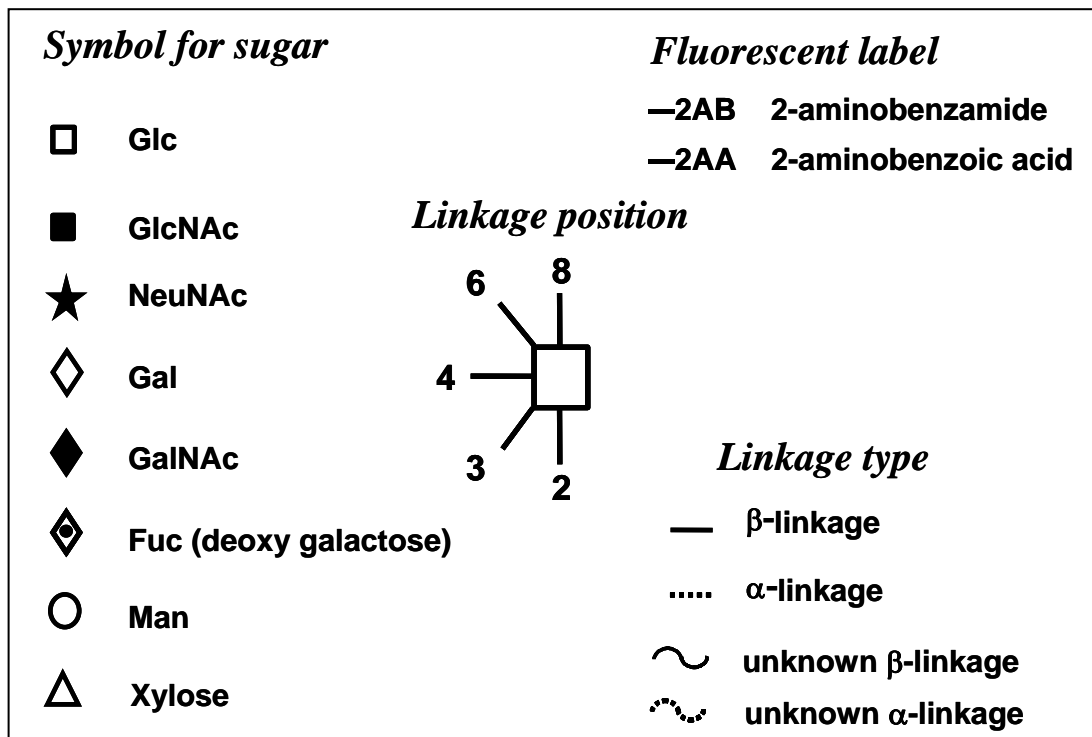


Figure 2: GlycoBase glycan structure key.