

Ludger

## Certificate of Analysis

### LudgerPure™ 2AB Labeled NGA3 Glycan

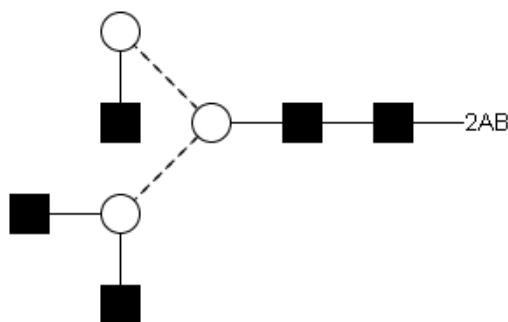
Cat. #: CAB-NGA3-01

Batch: A51H-01

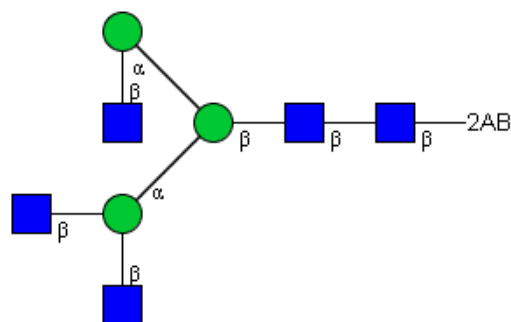
Size: approx. 100 pmol

Expiry: March 2021

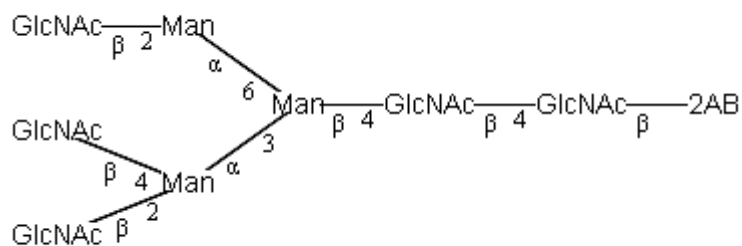
#### Structure



Oxford Notation



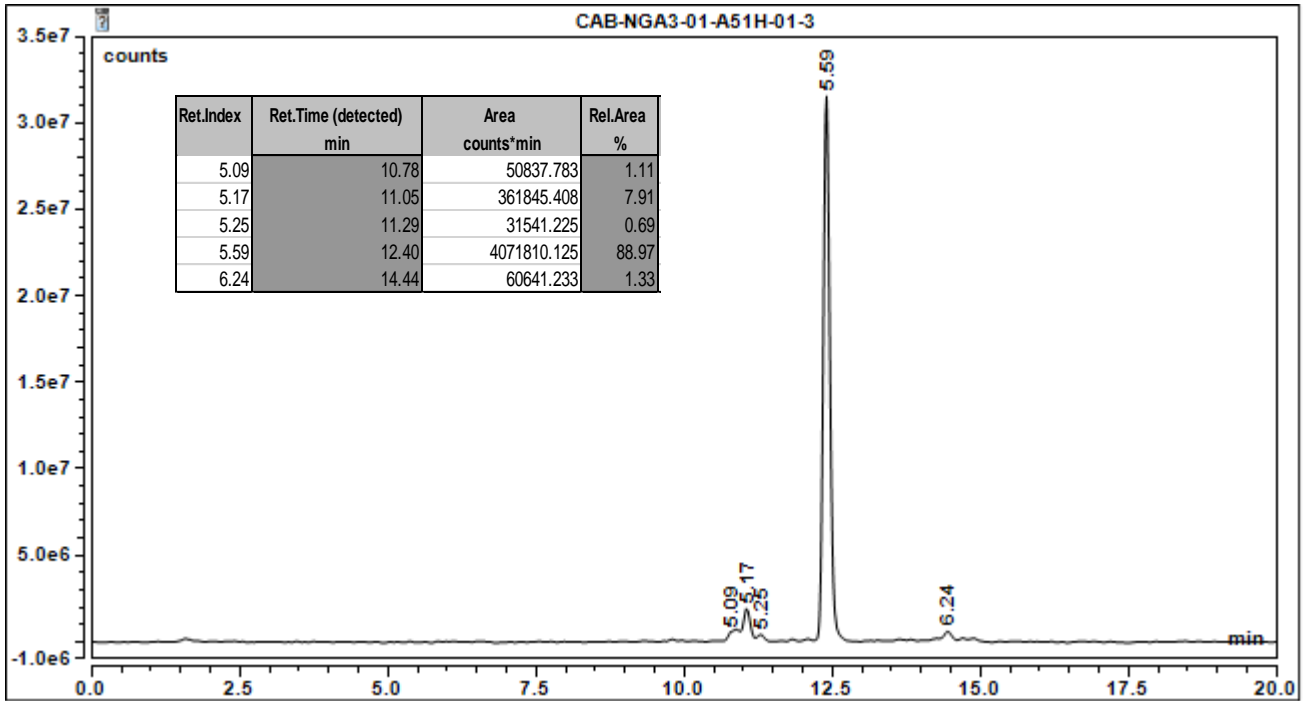
CFG Notation



Text Notation

**Purity:** 88% 2AB labeled NGA3 glycan, as assessed by HPLC - see Fig 1.

**Amount:** Sample vial determined to contain 82 pmols NGA3 glycan – Test performed 07 Mar 2016.



**Figure 1:** HILIC HPLC profile of 2AB labelled NGA3 glycan (see method conditions below)  
(Cat. #: CAB-NGA3-01, Batch A51H-01).

\*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).

**2-AB NGA3 peak seen above, eluted at 12.4 minutes, under the following conditions:**

**HPLC Running 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

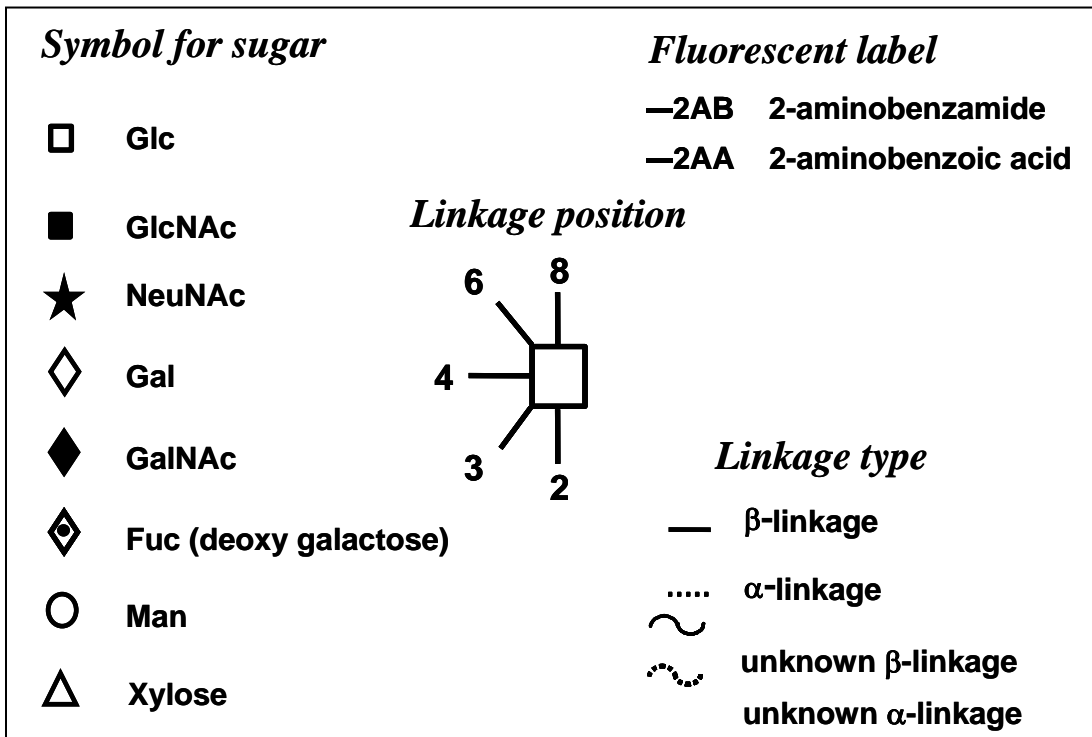
Gradient:

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.