

Ludger

## Certificate of Analysis

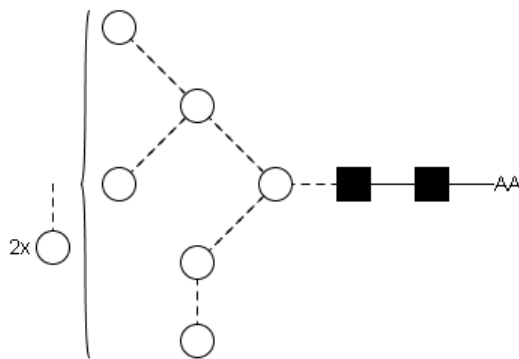
### LudgerPure™ 2AA Labeled MAN8 Glycan

Cat. #: CAA-MAN8-01

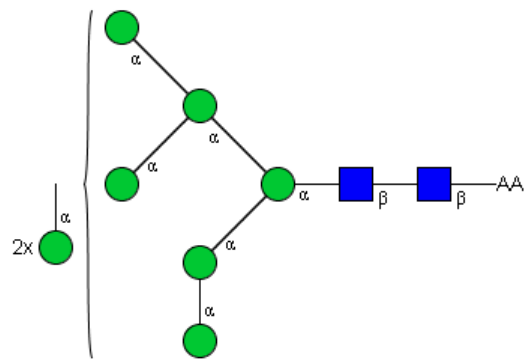
Batch: A54E-01

Size: approx. 100 pmol

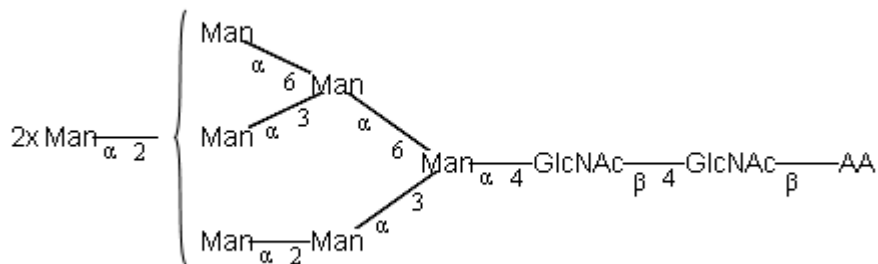
#### Structure



Oxford Notation

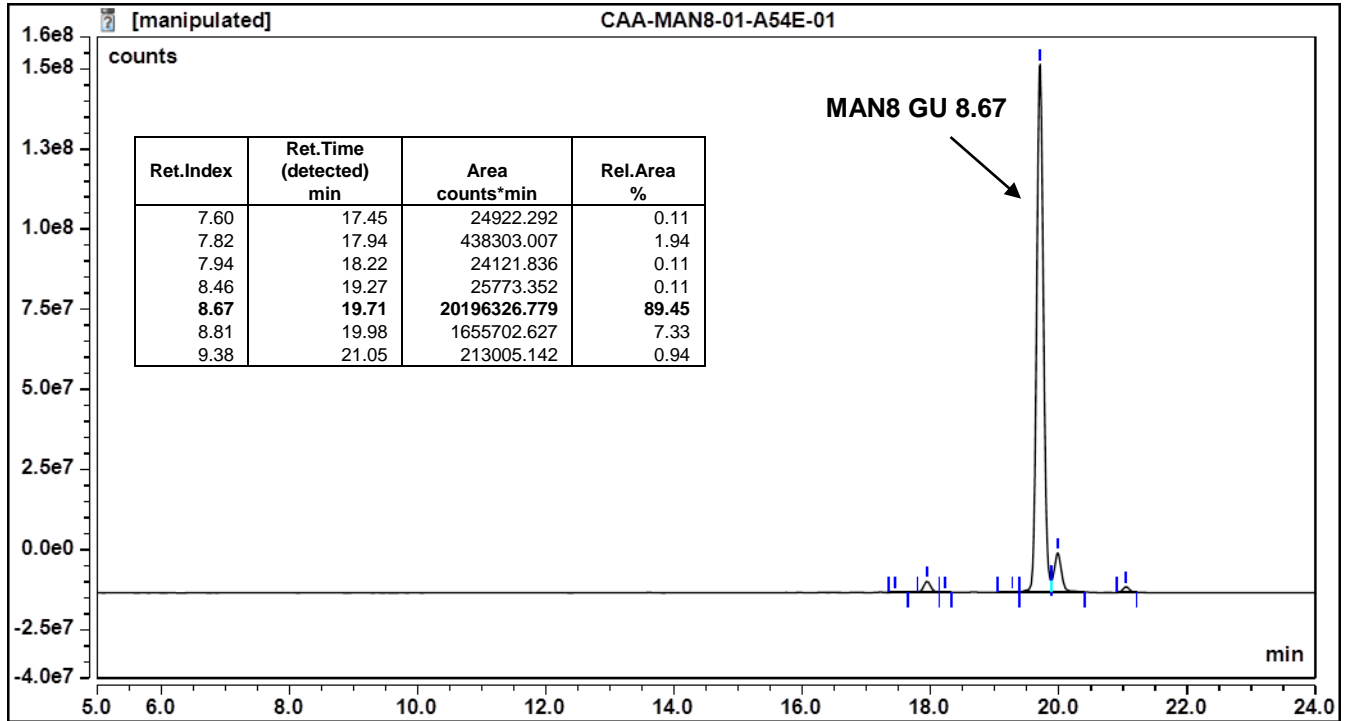


CFG Notation



Text Notation

**Purity:** 89.5% 2AA labeled MAN8 glycan, as assessed by HPLC - see Fig 1.



**Figure 1:** HILIC HPLC profile of 2AA labelled MAN8 glycan (see method conditions below)

(Cat. #: CAA-MAN8-01, Batch A54E-01).

*\*MAN8 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-AA MAN8 peak seen above, eluted at 19.71 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

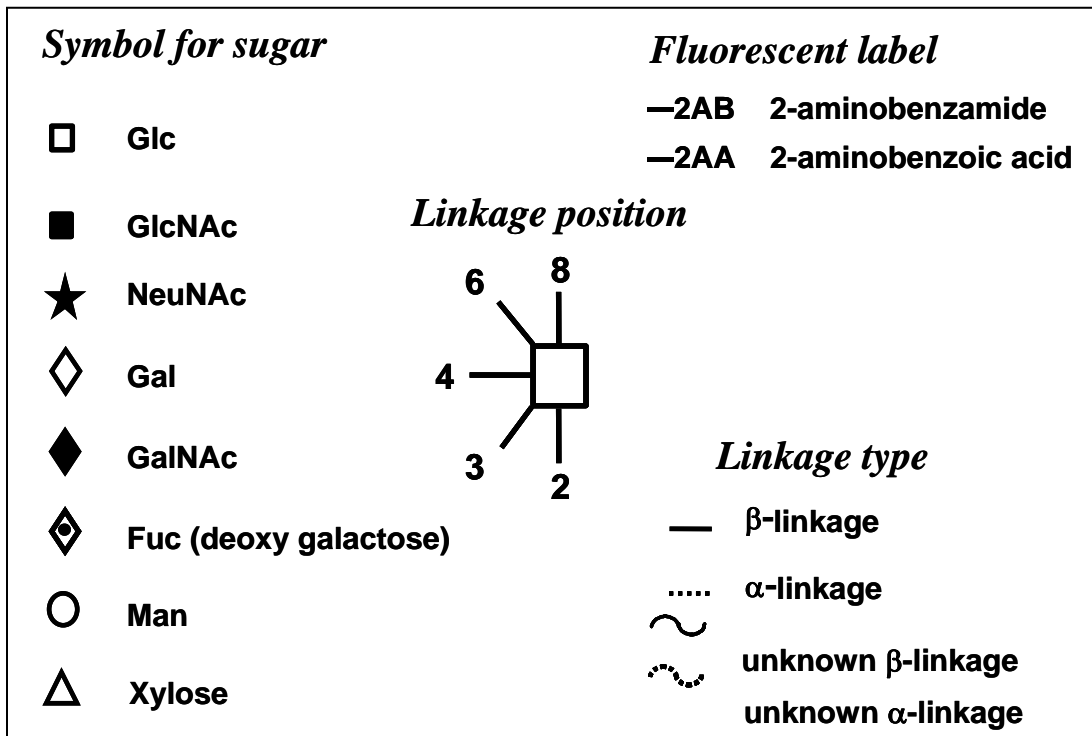
Gradient:

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.