

Certificate of Analysis

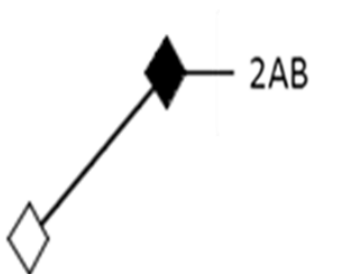
LudgerPure™ 2AB Labeled CAB-C1 Glycan

Cat. #: CAB-C1-01

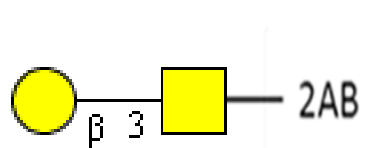
Batch: B39N-03

Size: approx. 110.7 pmol

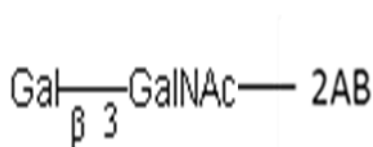
Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 100% 2AB labeled CAB-C1 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 110.7 pmols C1 glycan – Test performed 14th October 2013.

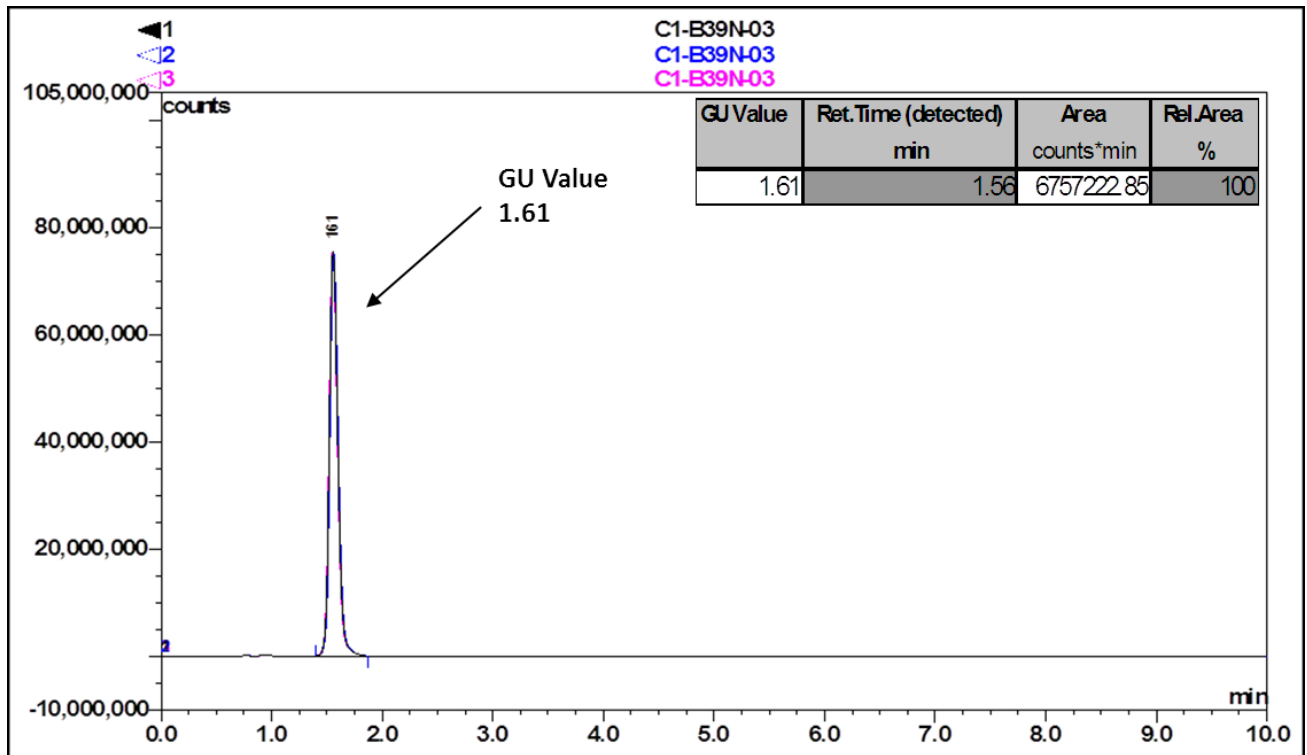


Figure 1: HILIC HPLC profile of 2AB labelled C1 glycan (see method conditions below)
(Cat. #: CAB-C1, Batch B39N-03).

**C1 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 C1 peak seen above, eluted at 1.56 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
1.3	78.0
5.0	72.5
5.5	40.0
6.0	78.0
10.0	78.0

Detector: Dionex FLD-3000

Excitation wavelength: 250 nm

Emission wavelength: 428 nm

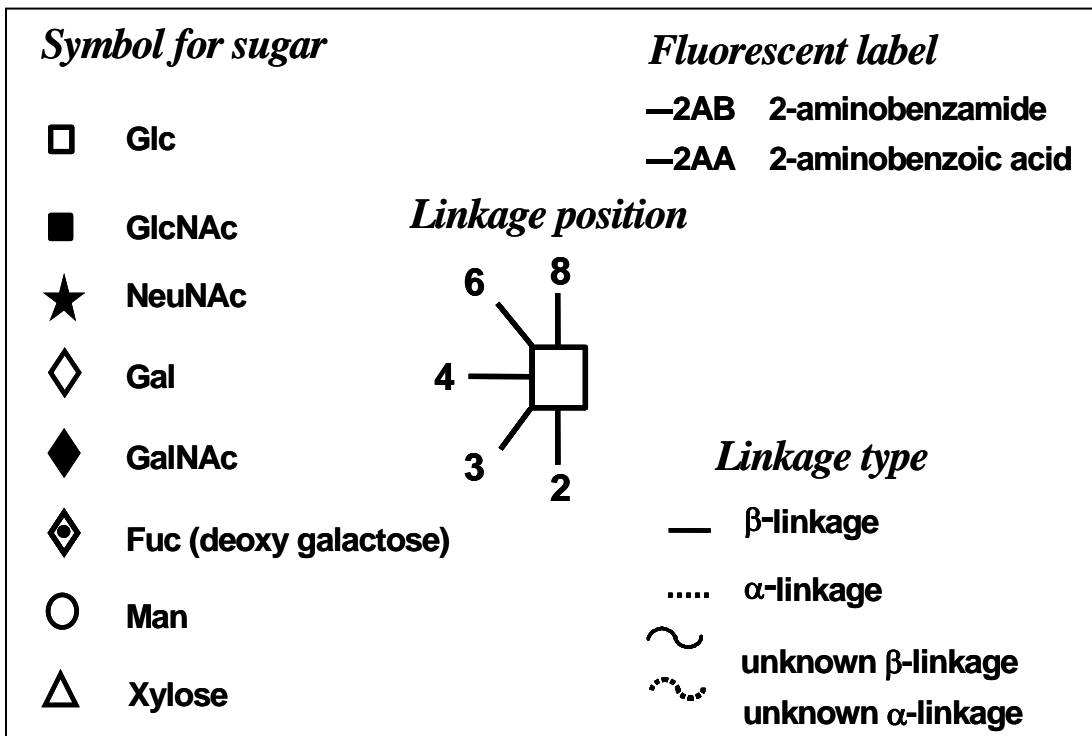


Figure 2: GlycoBase glycan structure key.