

Ludger

Certificate of Analysis

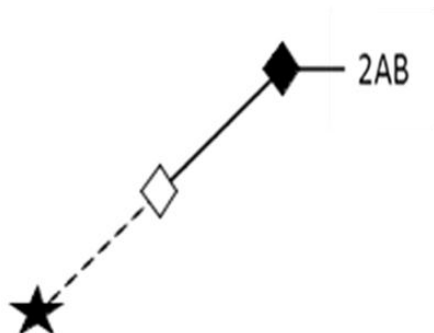
LudgerPure™ 2AB Labeled CAB-C1S(3)1-02 Glycan

Cat. #: CAB-C1S(3)1-02

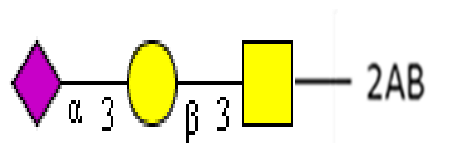
Batch: B39K-01

Size: approx 57.3 pmol

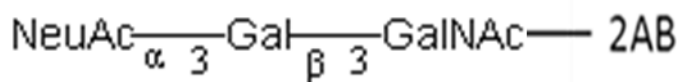
Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 97.48% 2AB labeled CAB-C1S(3)1-02 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 57.3pmols CAB-C1S(3)1 glycan – Test performed 14th Oct 2013

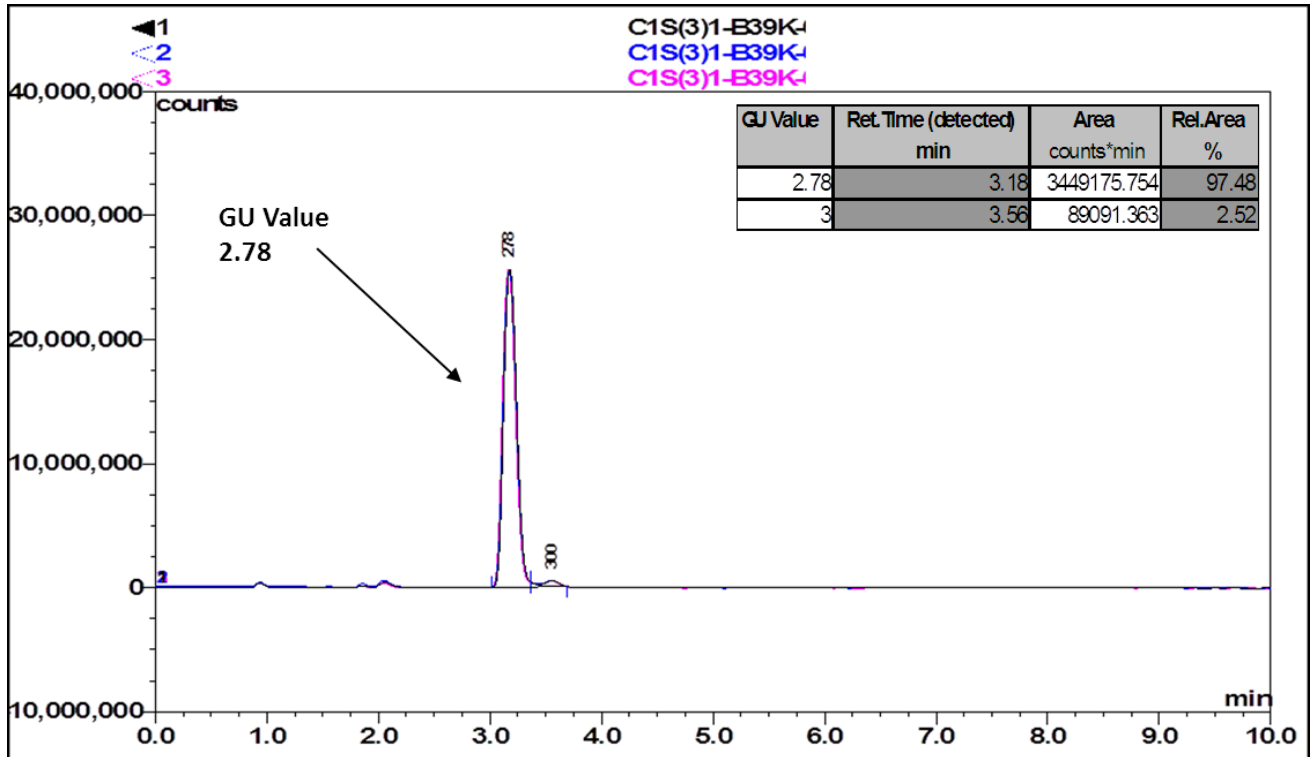


Figure 1: HILIC HPLC profile of 2AB labelled CAB-C1S(3)1 glycan (see method conditions below) (Cat. #: CAB-C1S(3)1-02, Batch B39K-01).

2-AB C1S(3)1 peak seen above, eluted at 3.18 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

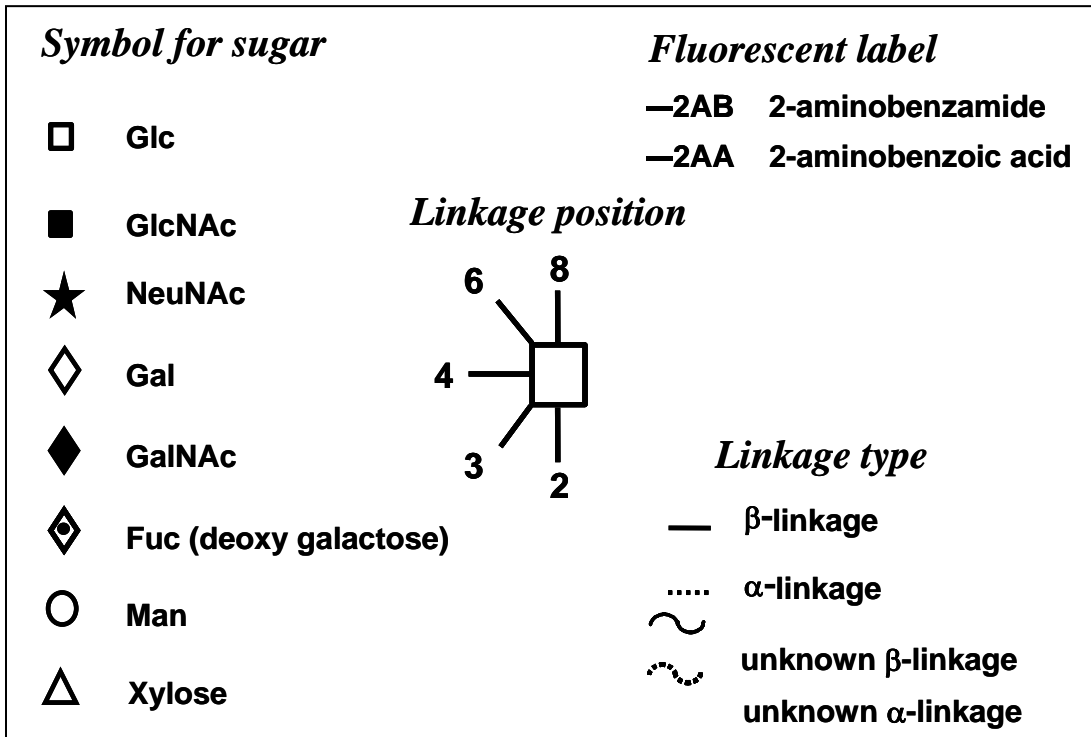


Figure 2: GlycoBase glycan structure key.