

Ludger

Certificate of Analysis

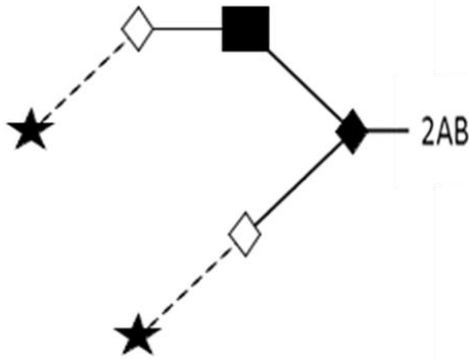
LudgerPure™ 2AB Labeled C2S(3,3)2-02 Glycan

Cat. #: CAB-C2S(3,3)2-02

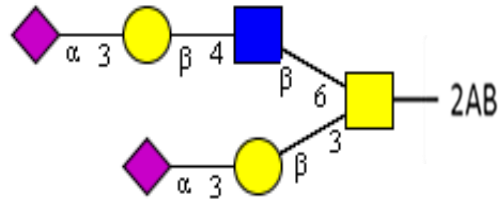
Batch: B39O-01

Size: approx.61.5 pmol

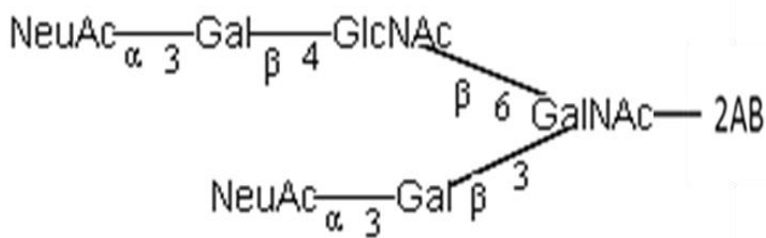
Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 93.46% 2AB labeled C2S(3,3)2-02 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 61.5 pmols C2S(3,3)2-02 glycan – Test performed 14TH October 2013.

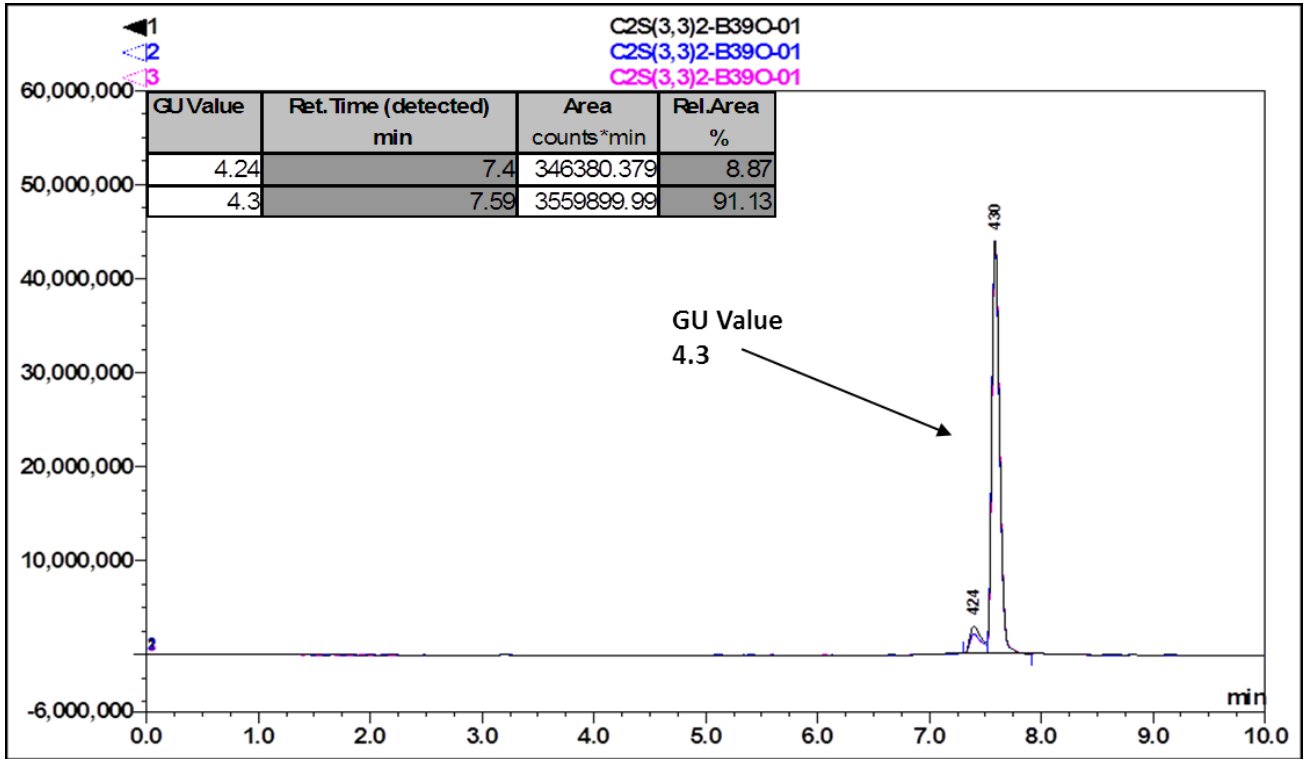


Figure 1: HILIC HPLC profile of 2AB labelled C2S(3,3)2-02 glycan (see method conditions below) (Cat. #: CAB-C2S(3,3)2-02, Batch B39O-01).

2-AB C2S(3,3)2 peak seen above, eluted at 7.59 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

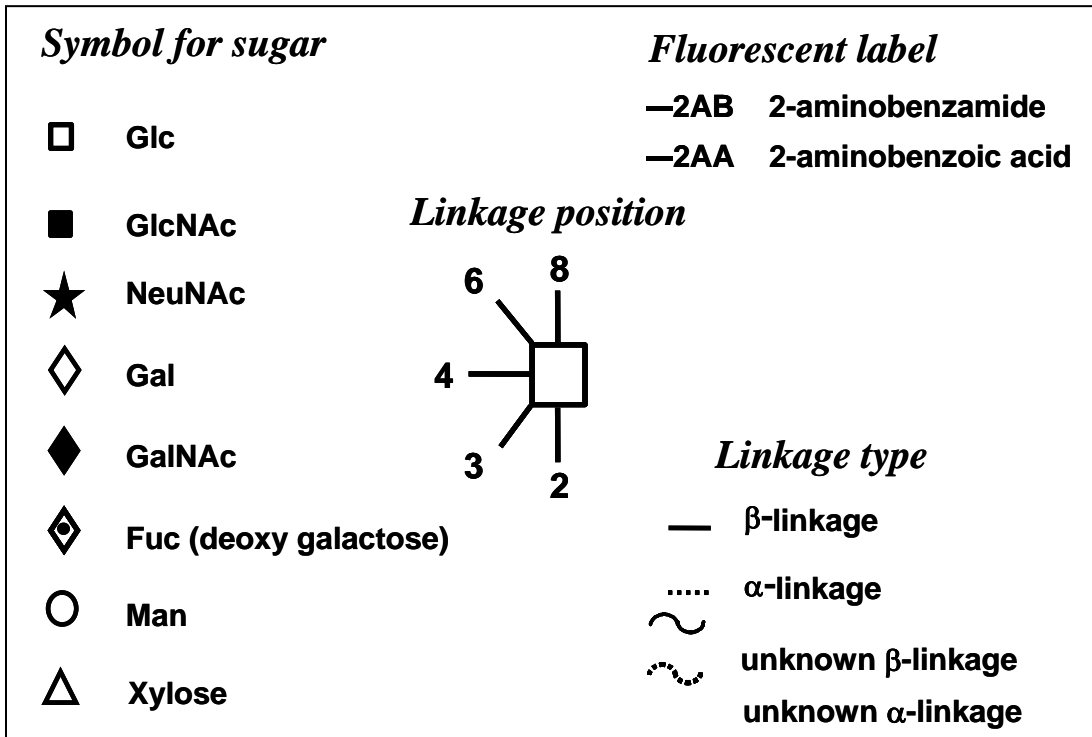


Figure 2: GlycoBase glycan structure key.