

Ludger

Certificate of Analysis

LudgerPure™ 2AB Labeled MAN8 Glycan

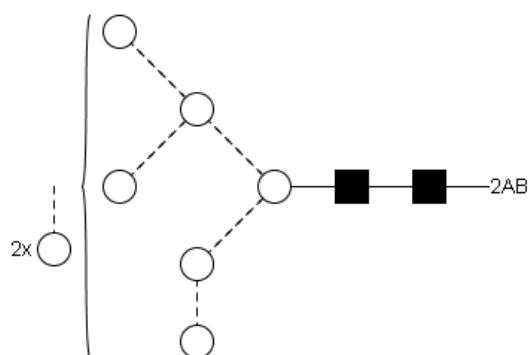
Cat. #: CAB-MAN8-01

Batch: A84S-04

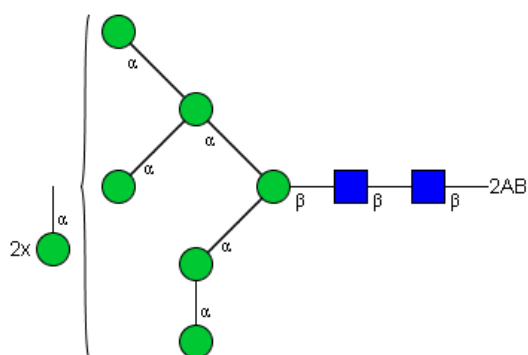
Size: approx. 100 pmol

Expiry: 07 Mar 2021

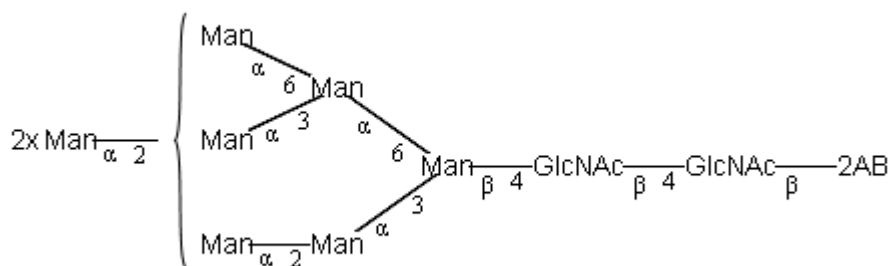
Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 92.73% 2AB labeled MAN8 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 84 pmols MAN8 glycan – Test performed 07 Mar 2016.

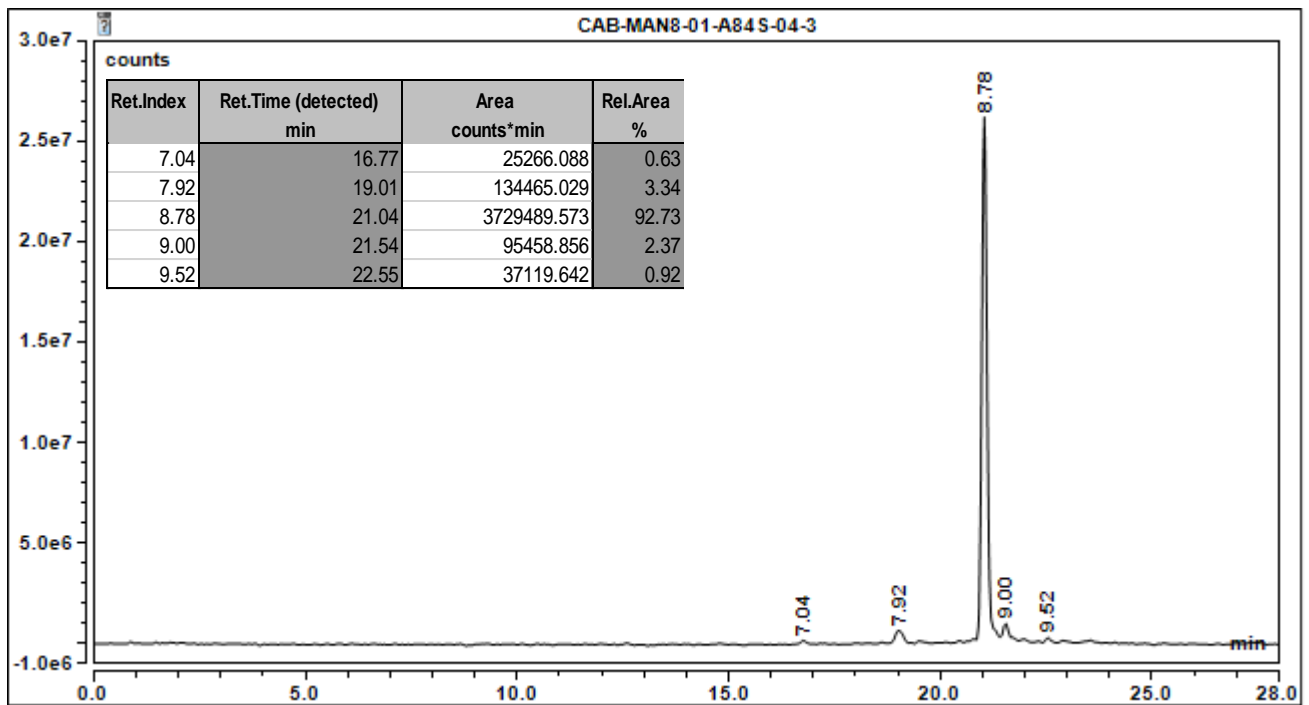


Figure 1: HILIC HPLC profile of 2AB labelled MAN8 glycan (see method conditions below)
(Cat. #: CAB-MAN8-01, Batch A84S-04).

**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-AB MAN8 peak seen above, eluted at 21.04 minutes, under the following conditions:

HPLC Running Conditions:

Column: Waters BEH Glycan 1.7µm column (150mm)

Flow: See table below.

Temperature: 60 °C

Solvent A: 50mM ammonium formate pH 4.4 Solvent B: 100 % acetonitrile

Gradient:

Time (min)	%B	Flow rate (mL/min)
0.0	78.0	0.50
38.5	55.9	0.50
40.5	0.0	0.25
42.5	0.0	0.25
44.5	78.0	0.25
50.5	78.0	0.25
51.5	78.0	0.50
55.0	78.0	0.50

Detector: Dionex FLD-3000

Excitation wavelength: 330 nm

Emission wavelength: 420 nm

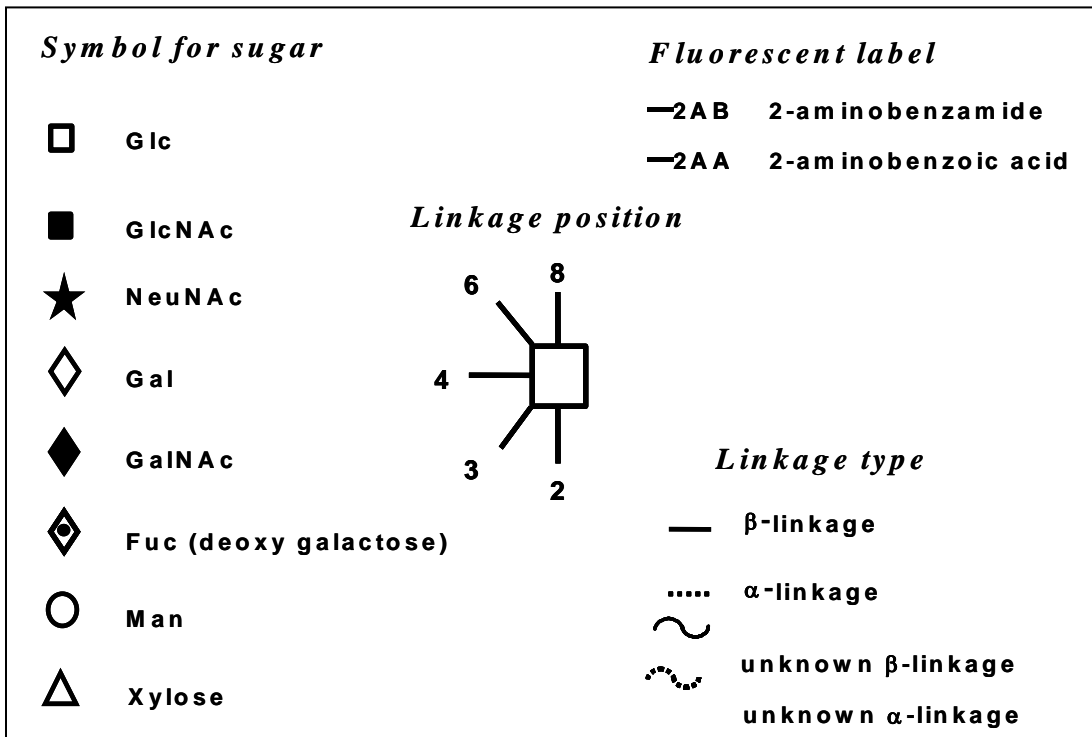


Figure 2: GlycoBase glycan structure key.