

Certificate of Analysis

LudgerPure™ 2AB Labelled ALPHA GAL Glycan

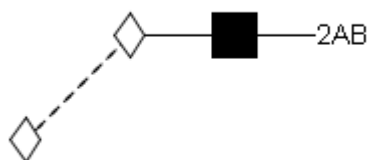
Cat. #: CAB-ALPHA-GAL-01

Batch: B3AS-04

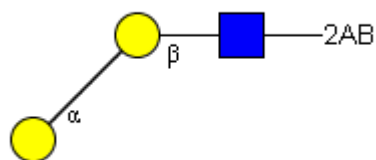
Size: approx. 100 pmol

Expiry Date: 28 Oct 2018

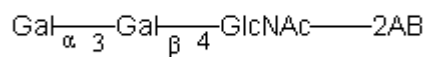
Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 86.6% 2AB labelled ALPHA GAL glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 118.2 pmols ALPHA GAL glycan – Test performed 28 Oct 2013.

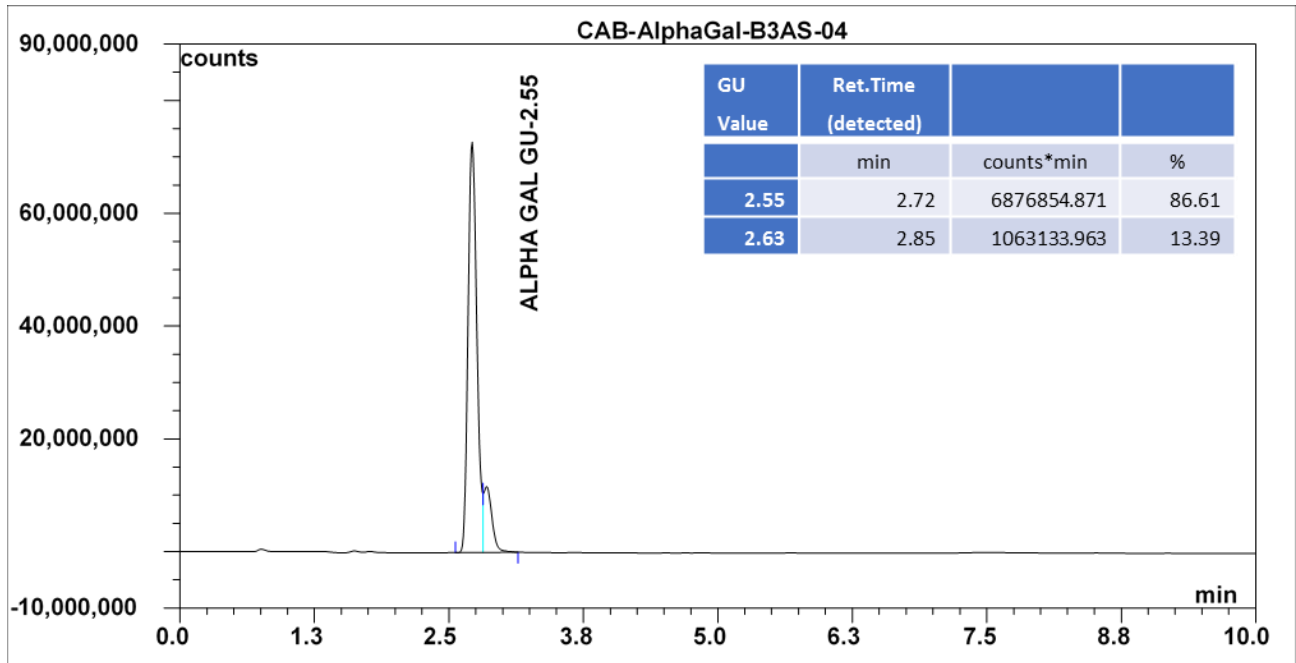


Figure 1: HILIC HPLC profile of 2AB labelled ALPHA GAL glycan (see method conditions below)
 (Cat. #: CAB-ALPHA-GAL-01, Batch B3AS-04).

**ALPHA GAL 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 ALPHA GAL peak seen above, eluted at 2.7 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	%B
	0.0	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

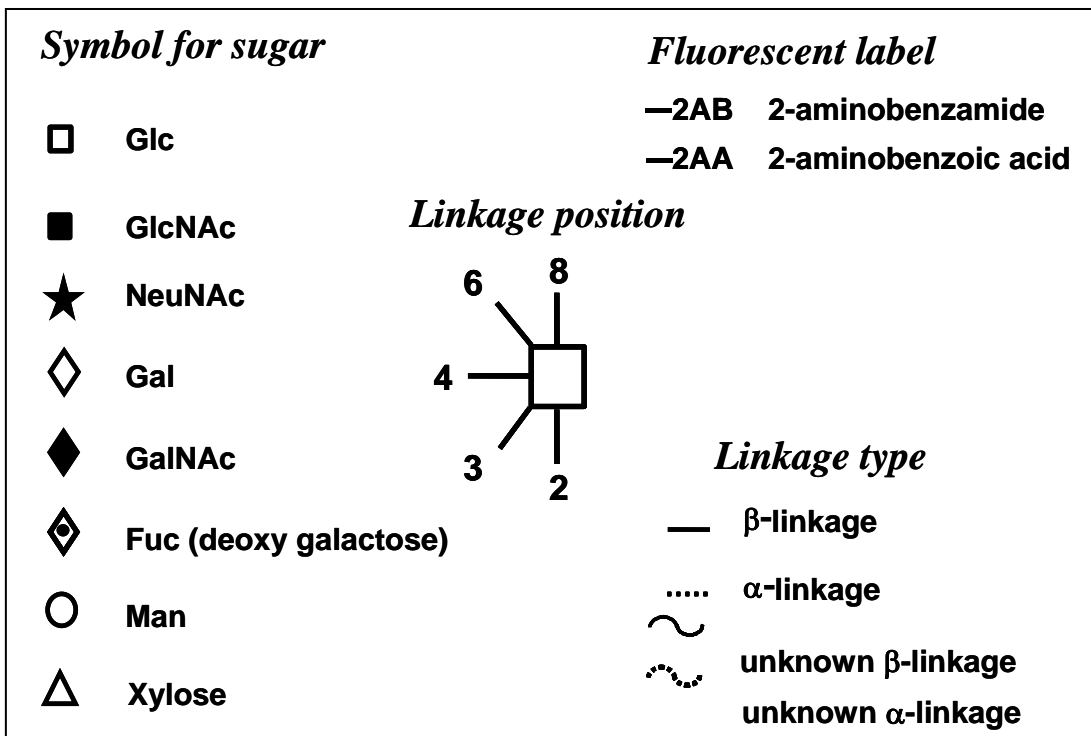


Figure 2: GlycoBase glycan structure key.