

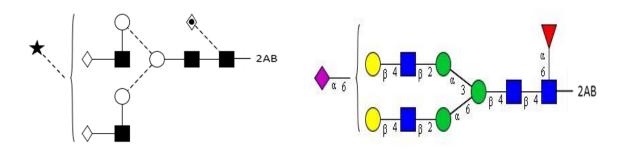
Certificate of Analysis

LudgerPure™ 2AB Labeled A1F Glycan

 Cat. #: CAB-A1F-01
 Batch: B382-07

 Size: approx. 100 pmol
 Expiry: 02 Aug 2018

Structure



Oxford Notation

CFG Notation

$$\text{NeuAc}_{\frac{\alpha}{\alpha} 6} \left\{ \begin{array}{c} \text{Gal}_{\frac{\beta}{\beta} 4} \text{GlcNAc}_{\frac{\beta}{\beta} 2} \text{Man}_{\frac{\alpha}{\alpha} 6} & \text{Fuc}_{\frac{\alpha}{\beta} 4} \text{GlcNAc}_{\frac{\beta}{\beta} 4} \text{GlcNAc}_{\frac{\beta}{\beta}$$

Text Notation

Purity: 94.6% 2AB labeled A1F glycan, as assessed by UHPLC - see Fig 1.

Amount: Sample vial determined to contain 119.6 pmols A1F glycan – Test performed 2nd August 2013.



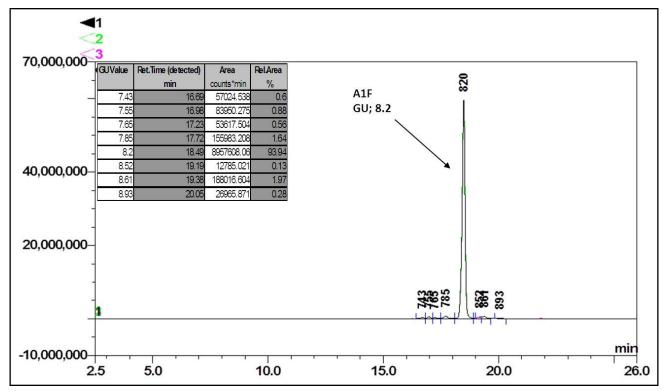


Figure 1: HILIC HPLC profile of 2AB labelled A1F glycan (see method conditions below) (Cat. #: CAB-A1F-01, Batch B382-07).

*A1F 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 A1F peak seen above, eluted at 18.49 minutes, under the following conditions: HPLC Running Conditions:

<u>Column:</u> Waters BEH Glycan 1.7μm column (150mm) <u>Flow:</u>

0.56mL/min.

Temperature: 60 °C

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

Gradient:

Time	%B		
(min)			
0.0	78.0		
1.5	78.0		
24.8	58.0		
25.8	40.0		
25.9	78.0		
31.0	78.0		

<u>Detector:</u> Dionex FLD-3000 <u>Excitation wavelength:</u> 250 nm <u>Emission wavelength:</u> 428 nm

Sym	abol for sugar	Fluorescent label		
	Glc		—2AB —2AA	2-aminobenzamide 2-aminobenzoic acid
	GIcNAc	Linkage pos	ition	
*	NeuNAc	6 8 \		
\Diamond	Gal	4		
•	GalNAc	3	\boldsymbol{L}	inkage type
♦	Fuc (deoxy galacto	ose)		β-linkage
0	Man		\sim	α-linkage
Δ	Xylose			unknown β-linkage unknown α-linkage

Figure 2: GlycoBase glycan structure key.