

Ludger

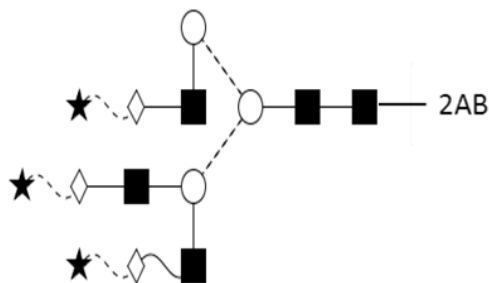
Certificate of Analysis

LudgerPure™ 2AB Labeled A3 Glycan

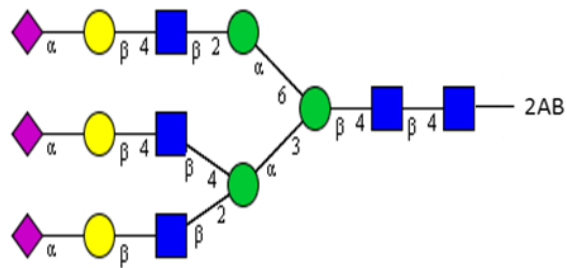
Cat. #: CAB-A3-01
Size: approx. 100 pmol

Batch: B38T-01
Expiry: 29th Aug 2018

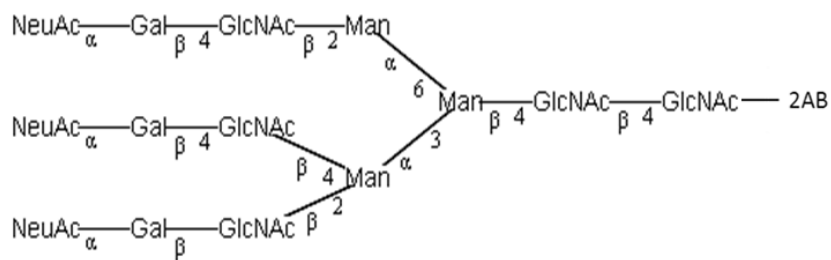
Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 99.% 2AB labeled A3 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 116.7 pmols A3 glycan – Test performed 02 SEPTEMBER 2013.

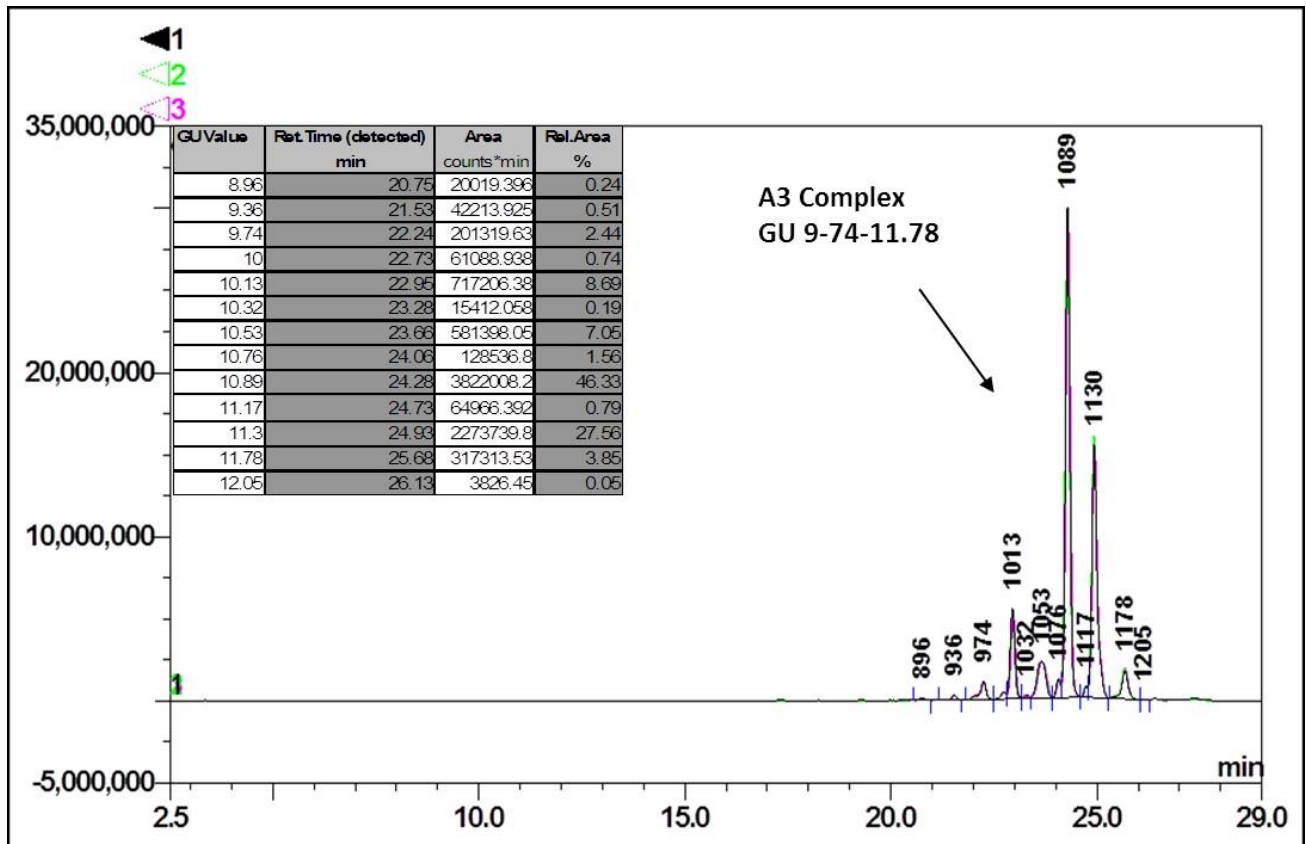


Figure 1: HILIC HPLC profile of 2AB labeled A3 glycan in triplicate (see method conditions below) (Cat. #: CAB-A3-01, Batch B38T-01).

**A3 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 A3 peak seen above, eluted between 22.25 and 25.68 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:

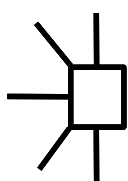
Time (min)	%B
0.0	78.0
1.5	78.0
24.8	58.0
25.8	40.0
25.9	78.0
31.0	78.0


Detector: Dionex FLD-3000


Excitation wavelength: 250 nm


Emission wavelength: 428 nm

<i>Symbol for sugar</i>	<i>Fluorescent label</i>
□ Glc	—2AB 2-aminobenzamide
■	2AA 2-aminobenzoic acid
★	
◇	
◆	
◊	
○	
△	









	<i>Linkage position</i>		
GlcNAc			
NeuNAc	6	8	
Gal	4		
3			<i>Linkage type</i>
GalNAc			
		2	
β-linkage			
Fuc (deoxy galactose)			
			β-linkage
Man			
unknown β-linkage			
Xylose			
unknown β-linkage			

Figure 2: GlycoBase glycan structure key.