

Ludger

Certificate of Analysis

LudgerPure™ 2AB Labeled NGA4 Glycan

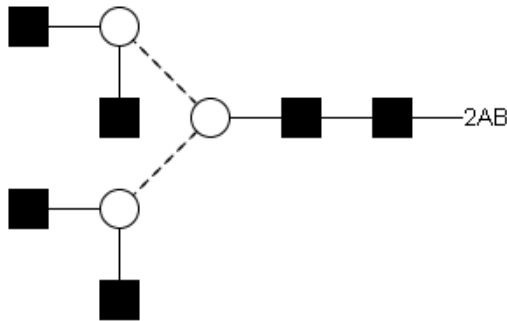
Cat. #: CAB-NGA4-01

Batch: A51E-01

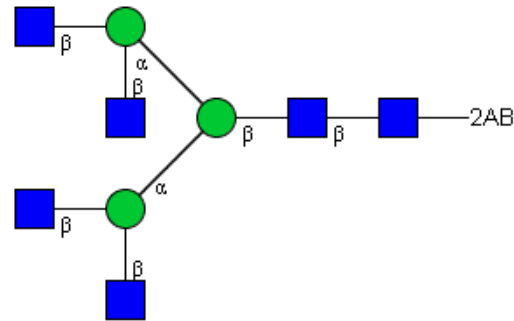
Size: approx. 100 pmol

Expiry: Mar 2021

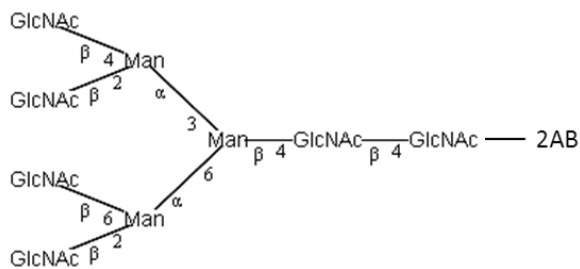
Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 87.71% 2AB labeled NGA4 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 90.6 pmols NGA4 glycan – Test performed 07 Mar 2016.

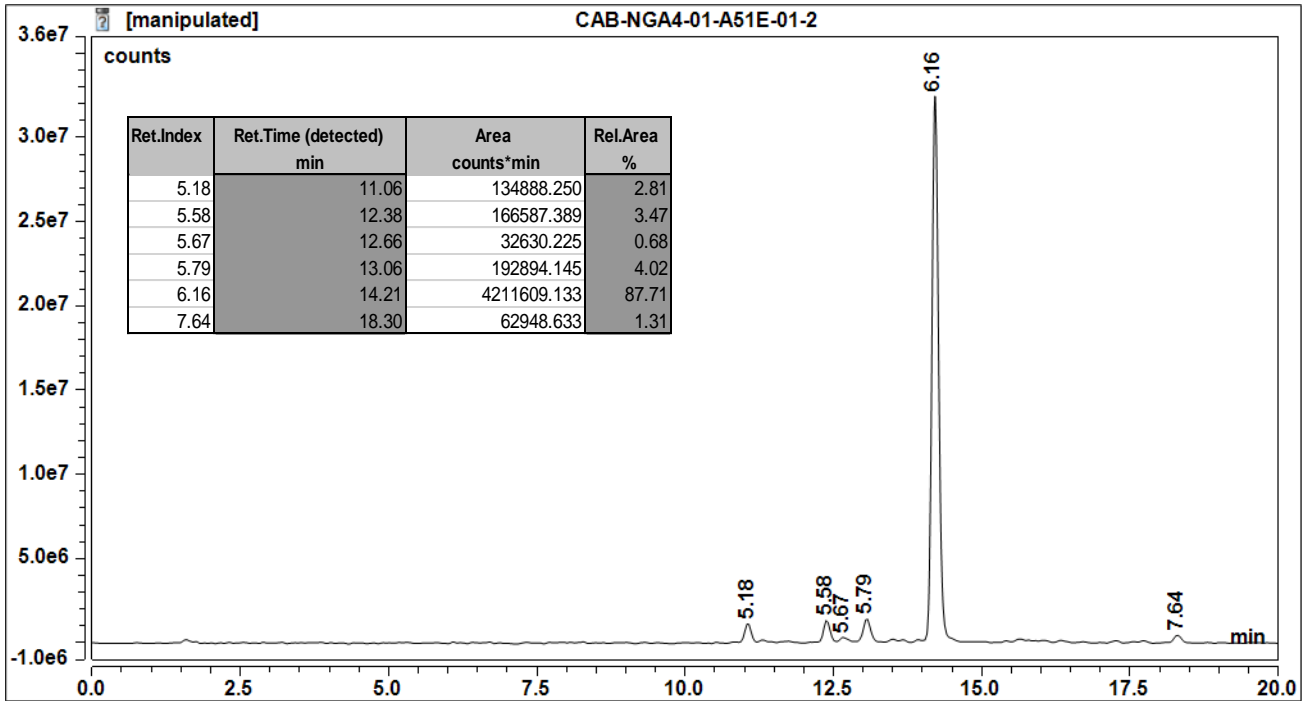


Figure 1: HILIC HPLC profile of 2AB labelled NGA4 glycan (see method conditions below)
(Cat. #: CAB-NGA4-01, Batch A51E-01).

*NGA4 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 NGA4 peak seen above, eluted at 14.21 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

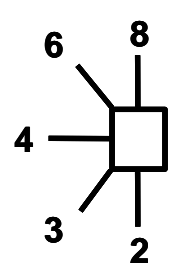
<i>Symbol for sugar</i>		<i>Fluorescent label</i>	
□	Glc	—2AB	2-aminobenzamide
■	GlcNAc	—2AA	2-aminobenzoic acid
★	NeuNAc		
◇	Gal		
◆	GalNAc		
◊	Fuc (deoxy galactose)		
○	Man		
△	Xylose		
		<i>Linkage position</i>	
			
		<i>Linkage type</i>	
		—	β-linkage
		α-linkage
		~	unknown β-linkage
		~	unknown α-linkage

Figure 2: GlycoBase glycan structure key.