

Certificate of Analysis

LudgerPure™ Procainamide Labeled NGA3 Glycan

Cat. #: CPROC-NGA3-01

Batch: C11S-04

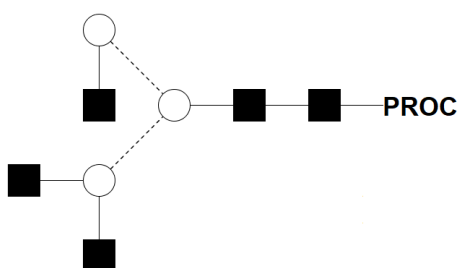
Size: approx. 20 pmol

Expiry Date: 28 Jan 2025

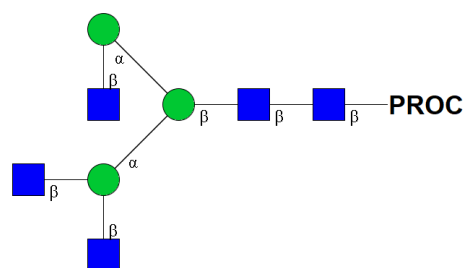
Alternative Names

A3

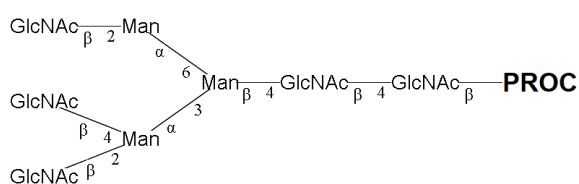
Glycan Structure



Oxford Notation



CFG Notation



Text Notation

Purity: 90% PROC labeled NGA3 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 21 pmols NGA3 glycan – Test performed 01 Feb 2021.

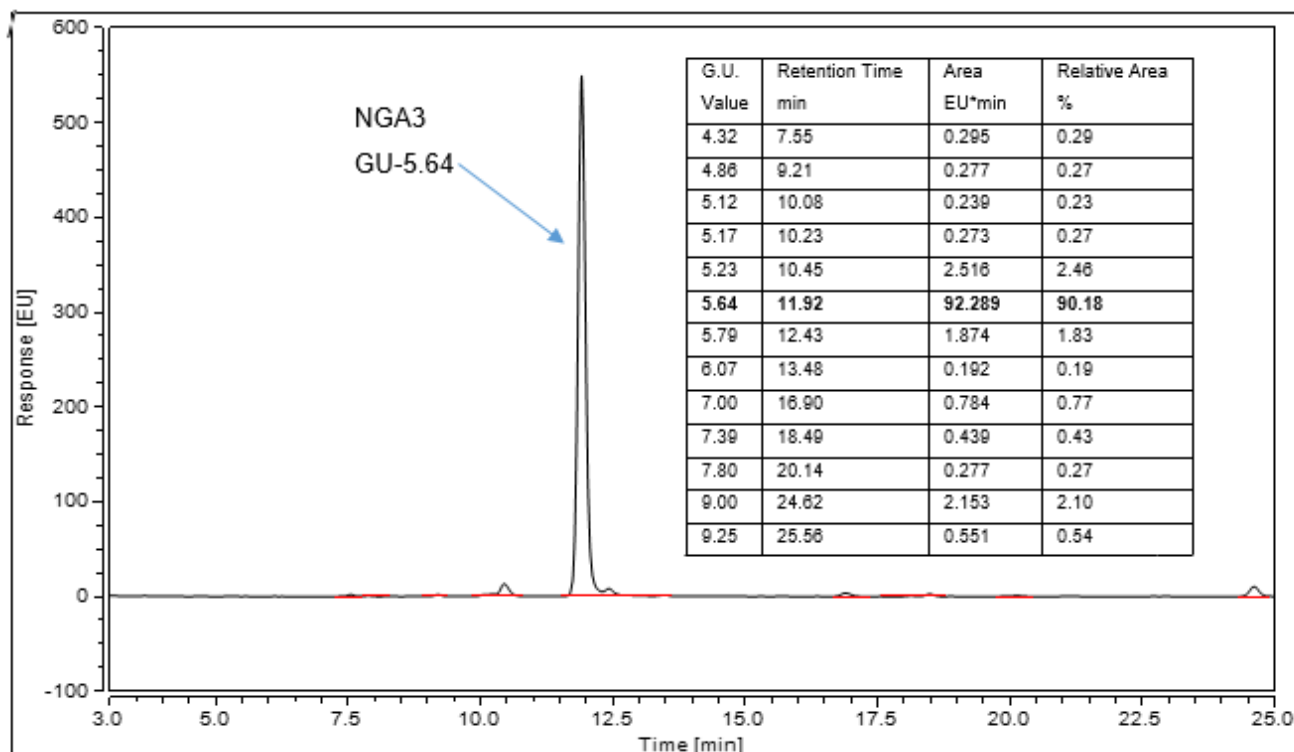


Figure 1: HILIC HPLC profile of PROC labelled NGA3 glycan (see method conditions below) (Cat. #: CPROC-NGA3-01, Batch C11S-04).

*NGA3 glycan structure identified by MS & HPLC (GU value comparison to GlycoBase). This structure is drawn according to the scheme developed by Oxford-Dublin Glycobiology Laboratory (see Fig 3).

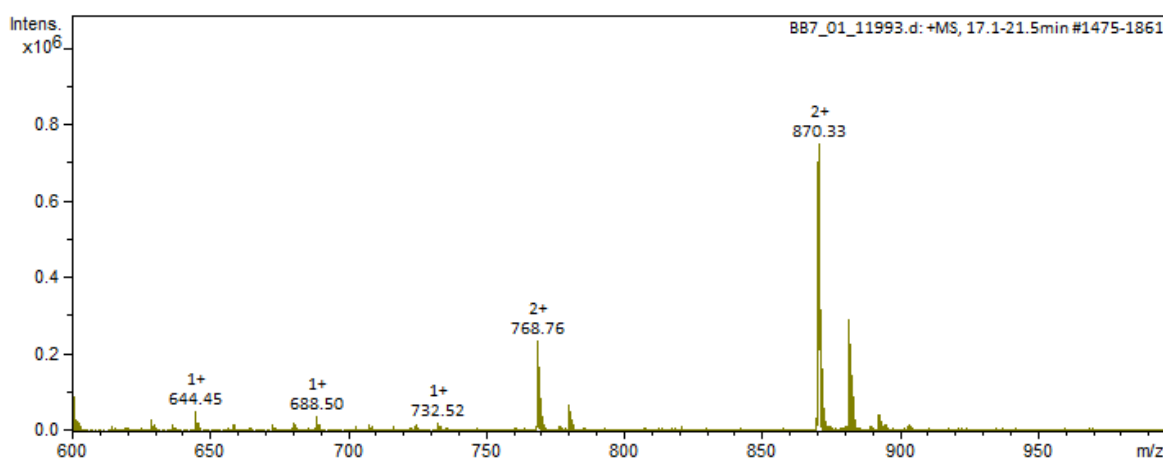


Figure 2: Positive ion mass spec analysis of labelled Glycan Sample. Main peak at m/z 870.3 conforms to expected $[M+2H]^{2+}$ mass. No significant unlabelled glycan peak present. (Cat. #: CPROC-NGA3-01, Batch C11S-04).

PROC NGA3 peak seen above, eluted at 11.92 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 (min)	%B	Flow (ml/min)
0.0	76.0	0.40
55.30	40.0	0.25
57.50	40.0	0.25
59.5	76.0	0.25
65.50	76.0	0.25
66.50	76.0	0.40
70.00	76.0	0.40

Detector: Fluorescence

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	

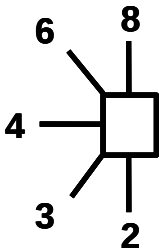
<i>Linkage position</i>		<i>Linkage type</i>
		— β-linkage
		 α-linkage
		~ unknown β-linkage
		~····~ unknown α-linkage

Figure 3: GlycoBase glycan structure key.