Certificate of Analysis

LudgerPure™ Procainamide Labeled NA2 Glycan

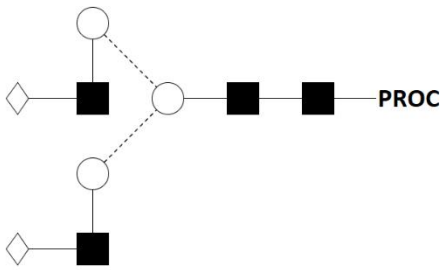
Cat. #: CPROC-NA2-01 Batch: C0C7-02

Size: approx. 20 pmol Expiry Date: 07 Dec 2025

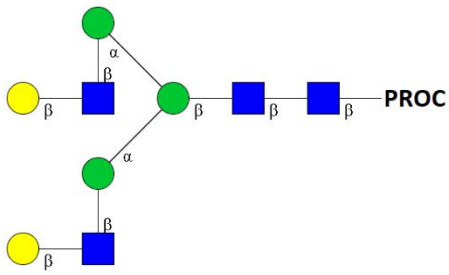
Alternative Names

A2G2, G2

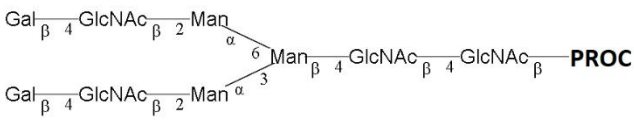
Glycan Structure



Oxford Notation



CFG Notation

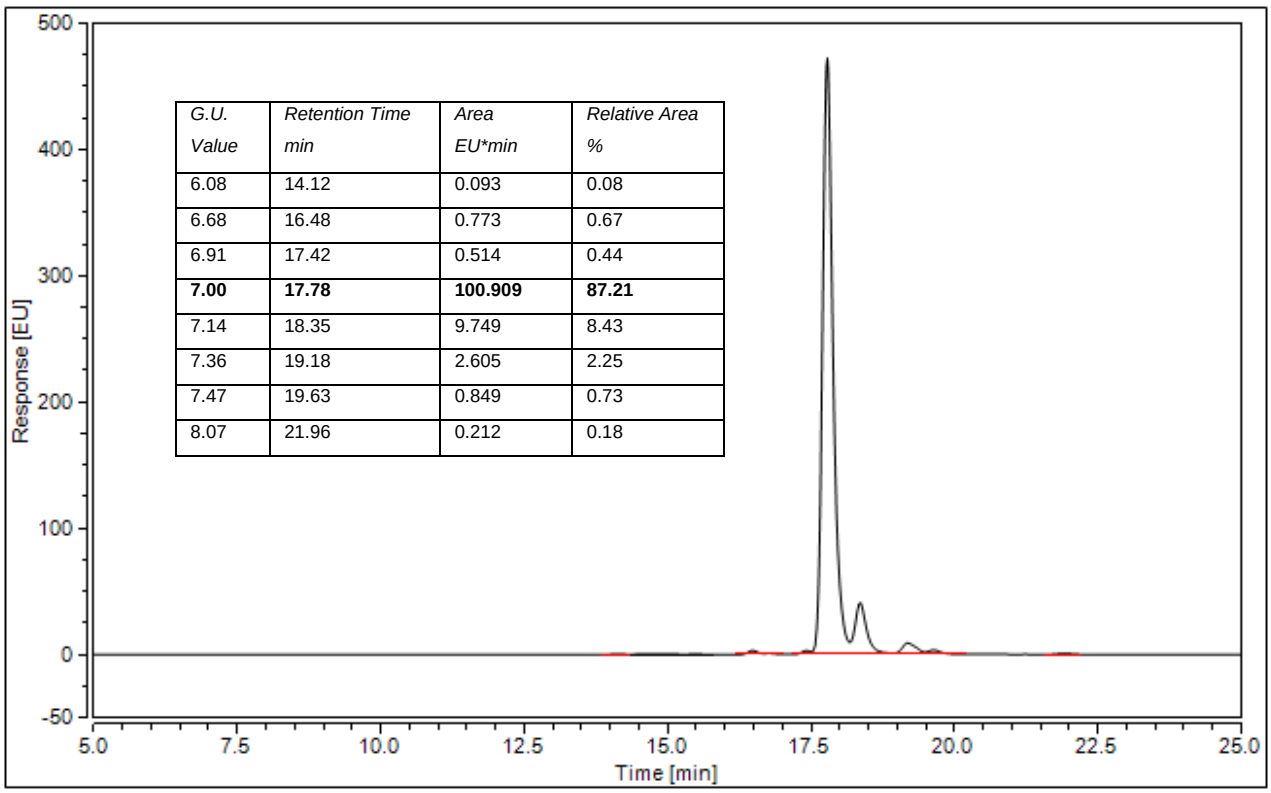


Text Notation

NA2 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 2).

Purity: 87% PROC labeled NA2 glycan, as assessed by HPLC - see Fig 1.

Amount: Sample vial determined to contain 23 pmols NA2 glycan – Test performed 08 Dec 2020.



G.U. Value	*Retention Time min*	*Area EU*min*	*Relative Area %*
6.08	14.12	0.093	0.08
6.68	16.48	0.773	0.67
6.91	17.42	0.514	0.44
7.00	**17.78**	**100.909**	**87.21**
7.14	18.35	9.749	8.43
7.36	19.18	2.605	2.25
7.47	19.63	0.849	0.73
8.07	21.96	0.212	0.18

Figure 1: *HILIC HPLC profile of PROC labelled NA2 glycan (see method conditions below) (Cat. #: CPROC-NA2-01, Batch C0C7-02).*

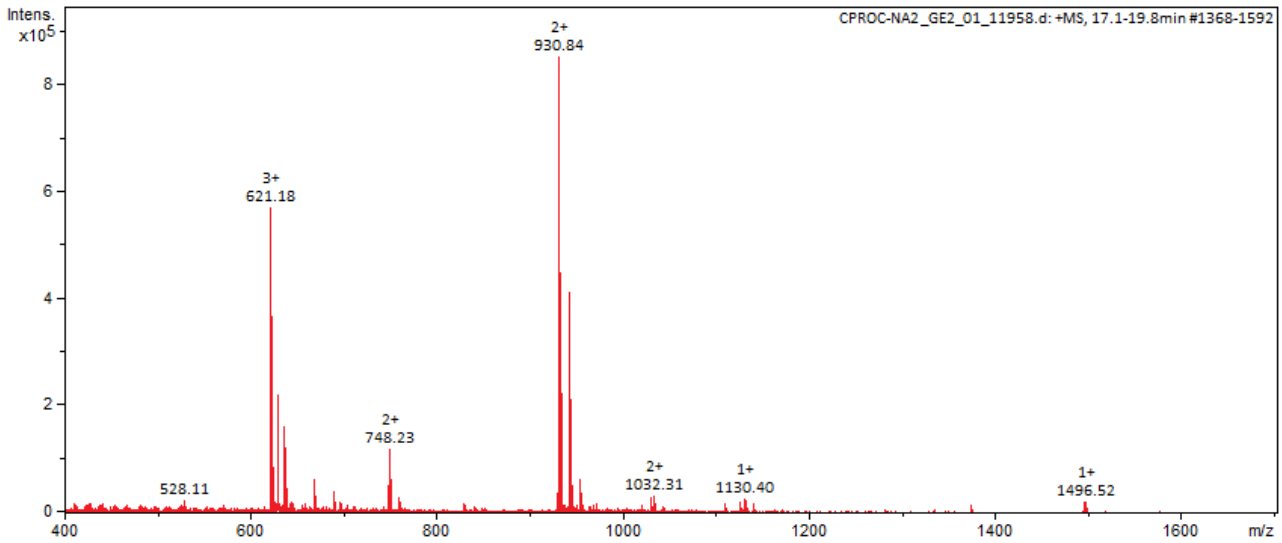


Figure 2: *Positive ion mass spec analysis of labelled Glycan Sample. . Main peak at m/z 931.0 conforms to expected* $[M+2H]^{2+}$ *mass. No significant unlabelled glycan peak present. (Cat. #: CPROC-NA2-01, Batch C0C7-02).*

PROC NA2 peak seen above, eluted at 17.78 minutes, under the following conditions:

Column: Waters BEH Glycan 1.7µm column (150mm)

Flow: 0.56mL/min.

Temperature: 40 °C

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

Gradient:

Time (min)	%B	Flow (ml/min)
0.0	72	0.40
51.3	53	0.40
54.3	0	0.2
56.3	0	0.2
57.3	72	0.2
59.3	72	0.4
60.0	72	0.4

Detector: Fluorescence

Excitation wavelength: 310 nm

Emission wavelength: 370 nm

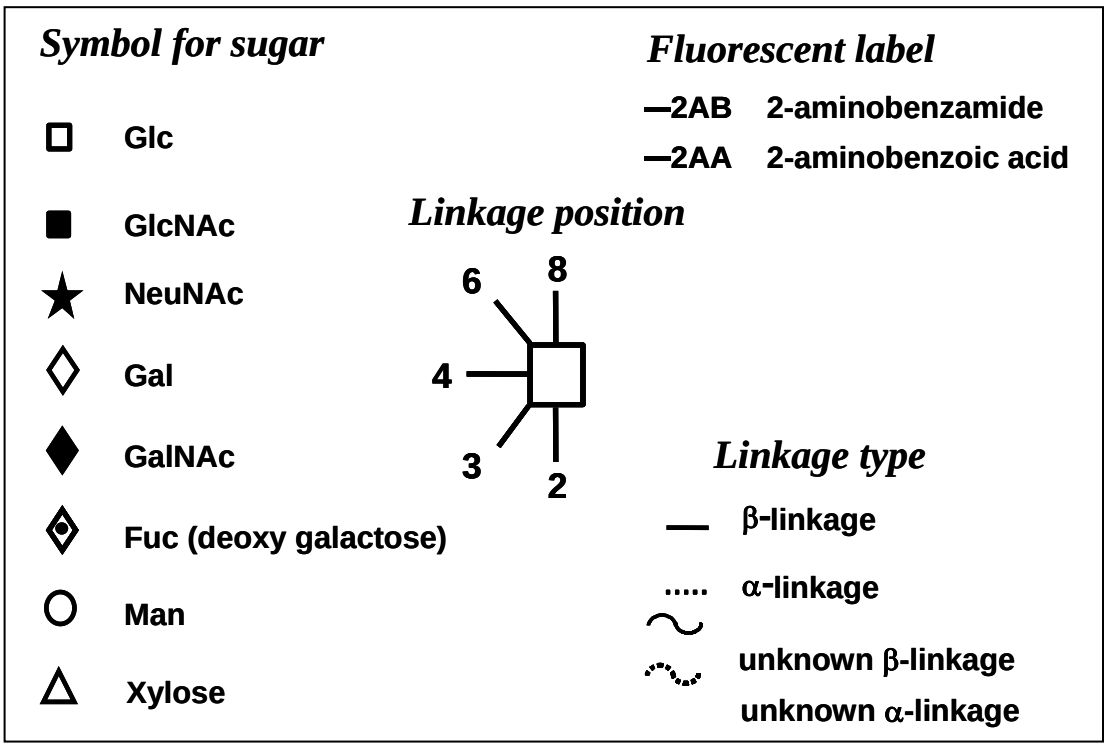


Figure 3: *GlycoBase glycan structure key.*