# Certificate of Analysis

## LudgerPure™ 2AA Labeled A2G1 Glycan

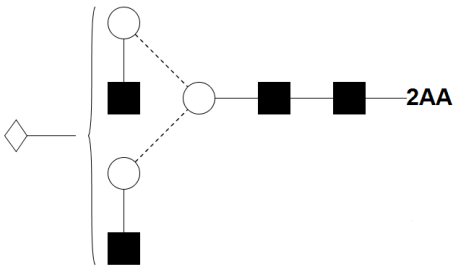
Cat. #: CAA-A2G1-01 Batch: B493-01

Size: approx. 100 pmol Expiry: 22 August 2035

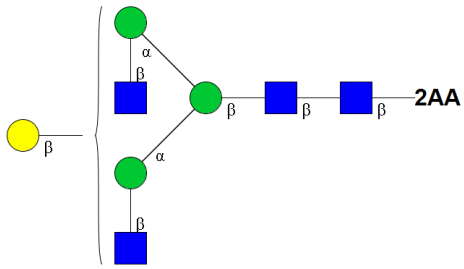
**Alternative Names**

G1

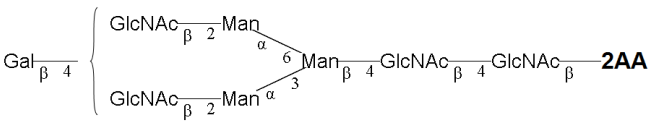
**Structure**




*Oxford Notation*



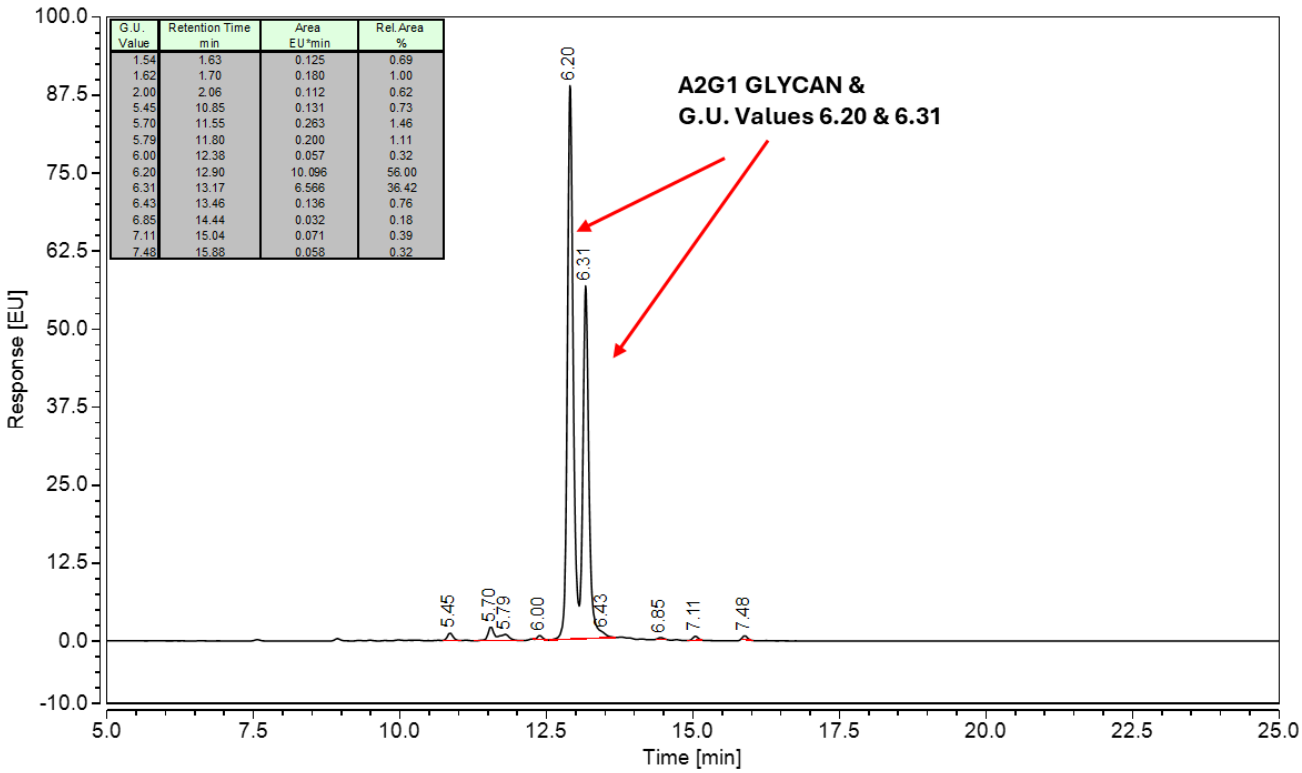

*CFG Notation*




*Text Notation*

**Purity:** 92.42% 2AB labeled A2G1 glycan, as assessed by HPLC - see Fig 1.

**Amount:** Sample vial determined to contain 95.9 pmols A2G1 glycan – Test performed 14 Feb 2019.




| G.U. Value | Retention Time min | Area EU*min | Rel.Area % |
|---|---|---|---|
| 1.54 | 1.63 | 0.125 | 0.69 |
| 1.62 | 1.70 | 0.180 | 1.00 |
| 2.00 | 2.06 | 0.112 | 0.62 |
| 5.45 | 10.85 | 0.131 | 0.73 |
| 5.70 | 11.55 | 0.263 | 1.46 |
| 5.79 | 11.80 | 0.200 | 1.11 |
| 6.00 | 12.38 | 0.057 | 0.32 |
| 6.20 | 12.90 | 10.096 | 56.00 |
| 6.31 | 13.17 | 6.566 | 36.42 |
| 6.43 | 13.46 | 0.136 | 0.76 |
| 6.85 | 14.44 | 0.032 | 0.18 |
| 7.11 | 15.04 | 0.071 | 0.39 |
| 7.48 | 15.88 | 0.058 | 0.32 |

**Figure 1:** HILIC HPLC profile of 2AA labelled A2G1 glycan (see method conditions below) (Cat. #: CAA-A2G1-01, Batch B493-01).

**A2G1 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-AA A2G1 peak seen above, eluted at 12.90 & 13.46 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 |
|---|---|
| 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: Fluorescence Excitation wavelength: 250 nm Emission wavelength: 428 nm

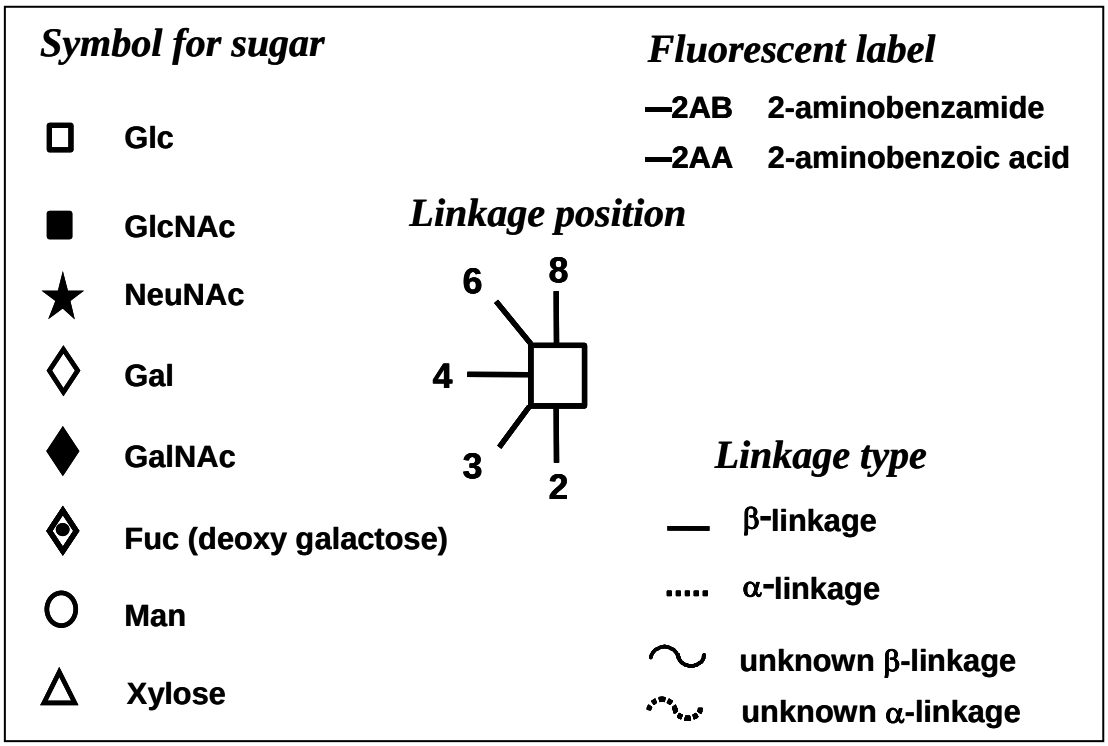



**Figure 2:** GlycoBase glycan structure key.