

Certificate of Analysis

LudgerPure™ APTS Labelled A1 Glycan

Cat. #: CAPTS-A1-01

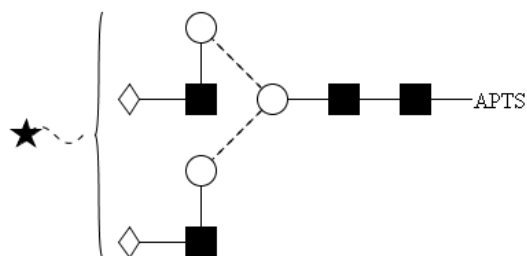
Batch: B28E-01

Size: ~ 20 pmol

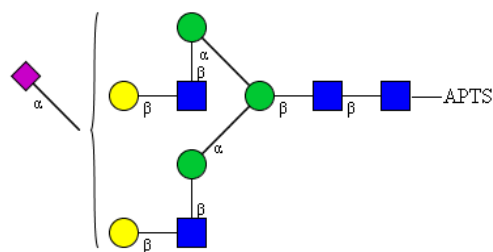
Alternative Names

A2G2S1, G1S

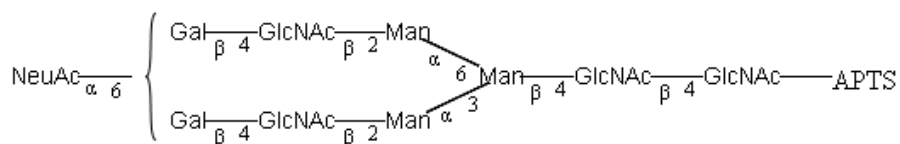
Structure



Oxford Notation



CFG Notation



Text Notation

{The Oxford Notation glycan structure is drawn according to the scheme developed by Oxford-Dublin Glycobiology Laboratory (see Fig 2)}.

Purity: > 80 % APTS labelled A1 glycan, as assessed by uHPLC - see Figure 1.

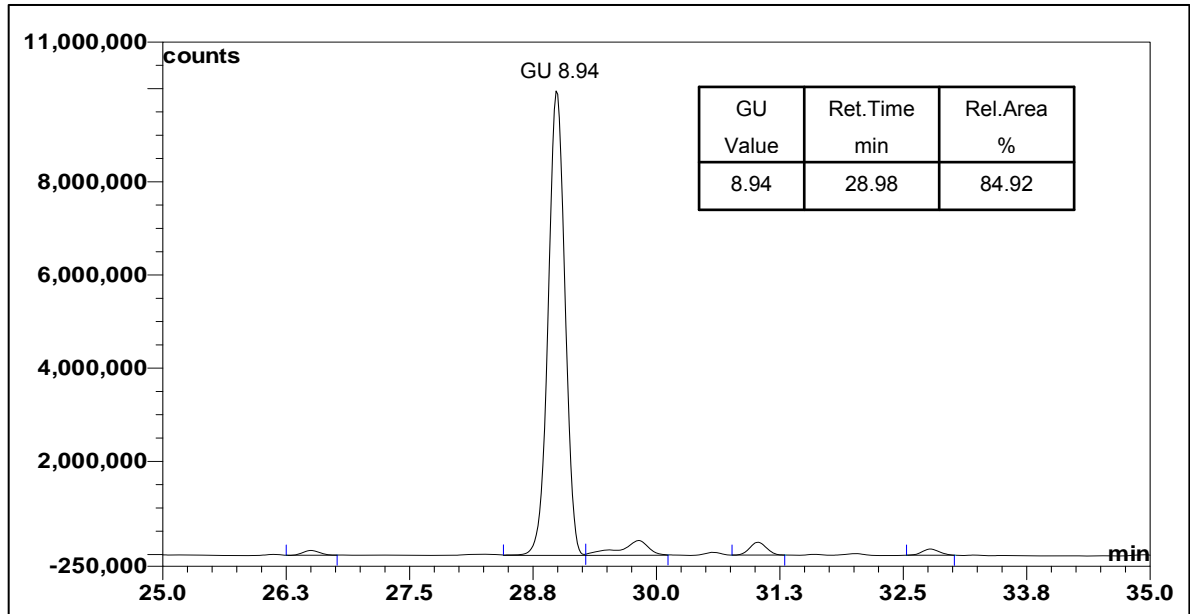


Figure 1: BEH uHPLC profile of APTS Labelled A1 Glycan (Cat. #: CAPTS-A1-01, Batch # B28E-01).

A1 glycan structure identified by uHPLC . (GU value obtained from running internal GHP labelled with APTS).

The APTS labelled A1 glycan peak (figure 1) eluted at 28.98 minutes under the following uHPLC conditions:

Column: Waters BEH uHPLC column, 1.7 μ M

Flow: 0.5 ml/min

Temperature: 60 °C

Solvent A: 50 mM Ammonium formate pH 4.4

Solvent B: 100 % Acetonitrile

Gradient:

- 0 min - 78 % B
- 38.5 min – 55.9 % B
- 40.5 min - 0 % B
- 42.5 min - 0 % B
- 44.5 min - 78 % B
- 55 min - 78 % B

Detector: Ultimate 3000

Excitation wavelength: 448 nm

Emission wavelength: 510 nm

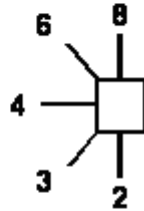
Symbol for sugar

- Glc
- GlcNAc
- ★ NeuNAc
- ◇ Gal
- ◆ GalNAc
- ◊ Fuc (deoxy galactose)
- Man
- △ Xylose

Fluorescent label

— APTS 8-Aminopyrene-1,3,6-trisulfonic acid

Linkage position



Linkage type

- β-linkage
- α-linkage
- ~ unknown β-linkage
- ~ unknown α-linkage

Figure 2: GlycoBase glycan structure key.