



Certificate of Analysis

Fetuin O-Glycan Library

Cat. # : CLIBO-FETUIN-01 Batch # : B23D-04 Size : Released from ~30 µg of fetuin glycoprotein

- Description:** A mixture of O-glycan standards from fetuin glycoprotein.
- Source:** The glycans in this product are released from a fetuin standard that is purified from fetal calf serum. Fetuin is a glycoprotein present in the circulation which is synthesized by hepatocytes. Fetuin exists in a variety of glycoforms containing bi-, tri-, and tetra-antennary oligosaccharides with variable sialylation.
- Form:** Dry. Lyophilised powder.
- Storage:** Refrigerate (-20°C) both before and after dissolving. This product is stable for at least 5 years as supplied.
- Shipping:** The product is shipped at ambient temperature.
- Handling:** Once dissolved avoid repeated thawing and refreezing, storage over 3 h at room temperature or above, exposure to light and long term exposure to acid as these will cause glycan desialylation.
- Safety:** This product is non-hazardous and has been purified from natural sources certified to be free of all hazardous material including pathogenic biological agents.

For research use only. Not for human or drug use

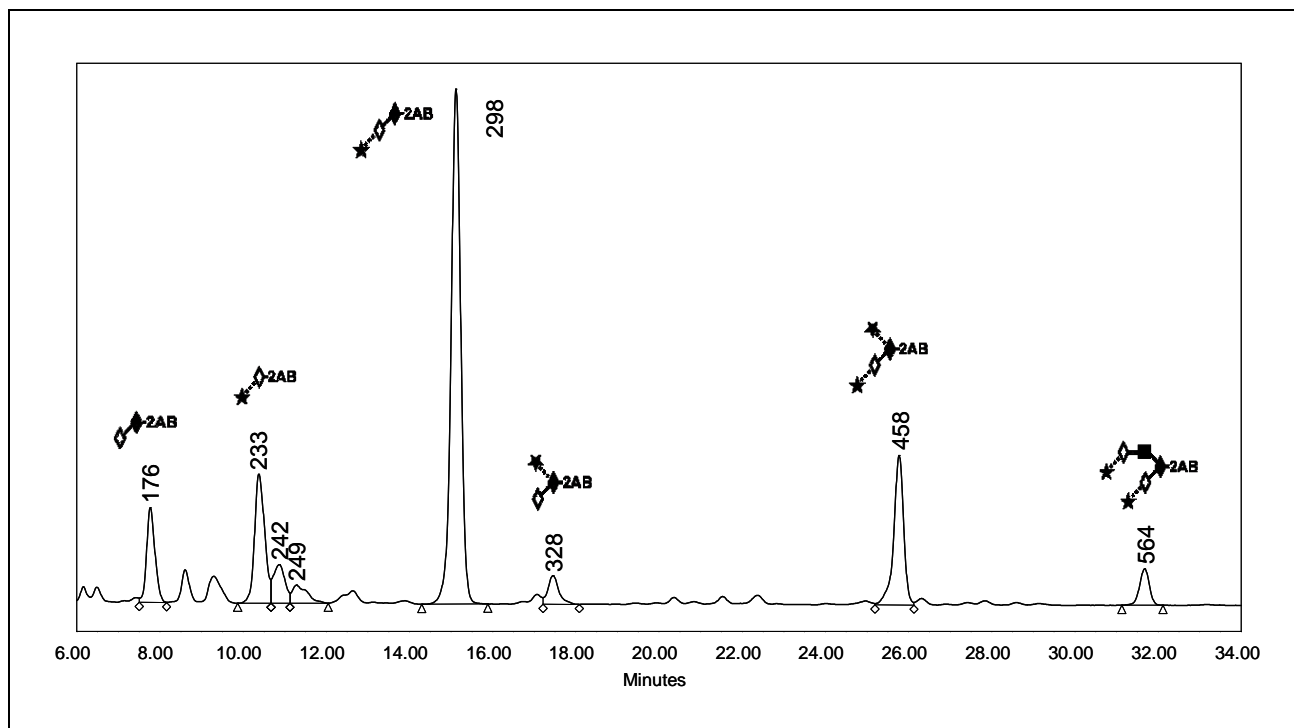


Figure 1: LudgerSep-N2 HPLC Profile of 2AB Labelled Fetuin O-Glycans (Cat. No. CLIBO-FETUIN-01, Batch No. B23D-04).

GU value	Sialylation	Name (structure)	Relative amount (%)
1.76	Core 1	Gal β 1-3GalNAc	7.39
2.33	mono-sialylated	'peeled glycan'*, Neu5Ac α 2-3Gal	20.38
2.98	mono-sialylated	Neu5Ac α 2-3Gal β 1-3GalNAc	49.97
3.28	mono-sialylated	Neu5Ac α 2-6(Gal β 1-3)GalNAc	3.16
4.58	di-sialylated	Neu5Ac α 2-3Gal β 1-3(Neu5Ac α 2-6)GalNAc	14.99
5.64	di-sialylated	Neu5Ac α 2-3Gal β 1-3(Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-6)GalNAc	3.6

Table 1: GU values and structural names of each peak from LudgerSep-N2 HPLC (Cat. No. CLIBO-FETUIN-01, Batch No. B23D-04)

* Loss of terminal GalNAc during hydrazinolysis



Ludger

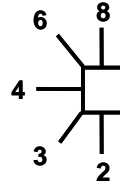
Symbol for sugar

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

Fluorescent label

—2AB 2-aminobenzamide

Linkage position



Linkage type

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

Figure 2: Symbols used to depict glycan structures.