



## Certificate of Analysis

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### Fetuin O-Glycan Library

Cat. #: CLIBO-FETUIN-01

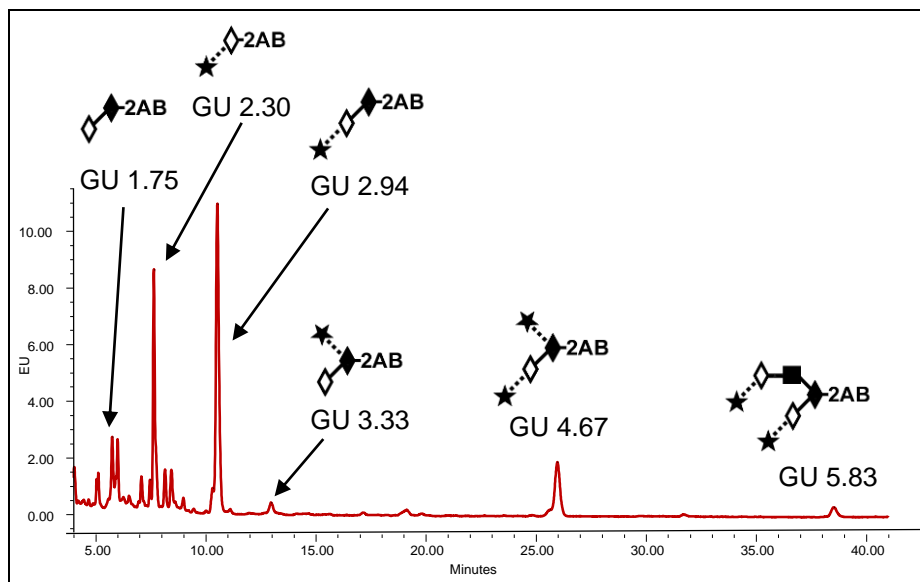
Batch #: B722-01

Size: Released from ~30 µg of fetuin glycoprotein

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- 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: HILIC HPLC Profile of 2AB Labelled Fetuin O-Glycans (Cat. No. CLIBO-FETUIN-01, Batch No. B722-01).**

GU value	Sialylation	Name (structure)	Relative amount (%)
1.75	Core 1	Gal $\beta$ 1-3GalNAc	7.62
2.30	mono-sialylated	'peeled glycan'*, Neu5Ac $\alpha$ 2-3Gal	24.81
2.94	mono-sialylated	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3GalNAc	48.99
3.33	mono-sialylated	Neu5Ac $\alpha$ 2-6(Gal $\beta$ 1-3)GalNAc	1.80
4.67	di-sialylated	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-6)GalNAc	14.04
5.83	di-sialylated	Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-3(Neu5Ac $\alpha$ 2-3Gal $\beta$ 1-4GlcNAc $\beta$ 1-6)GalNAc	2.74

**Table 1: GU values and structural names of the main peaks from fetuin O-glycan library HPLC (Cat. No. CLIBO-FETUIN-01, Batch No. B722-01)**

\* Loss of terminal GalNAc during hydrazinolysis

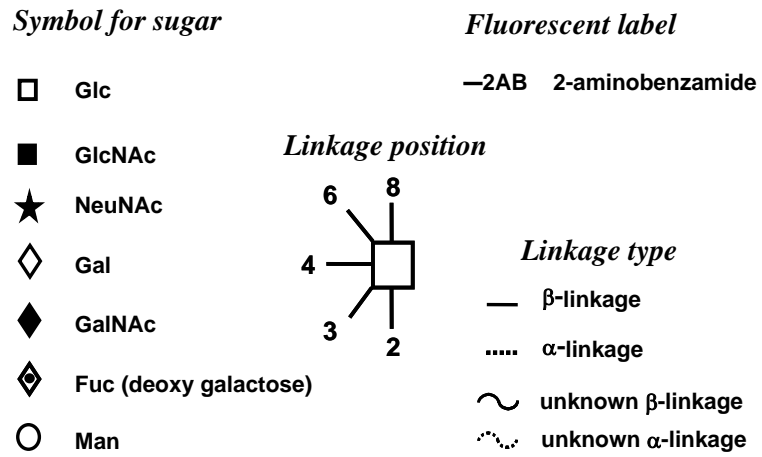


Figure 2: Symbols used to depict glycan structures.