

## Certificate of Analysis

### Monosaccharide Mix

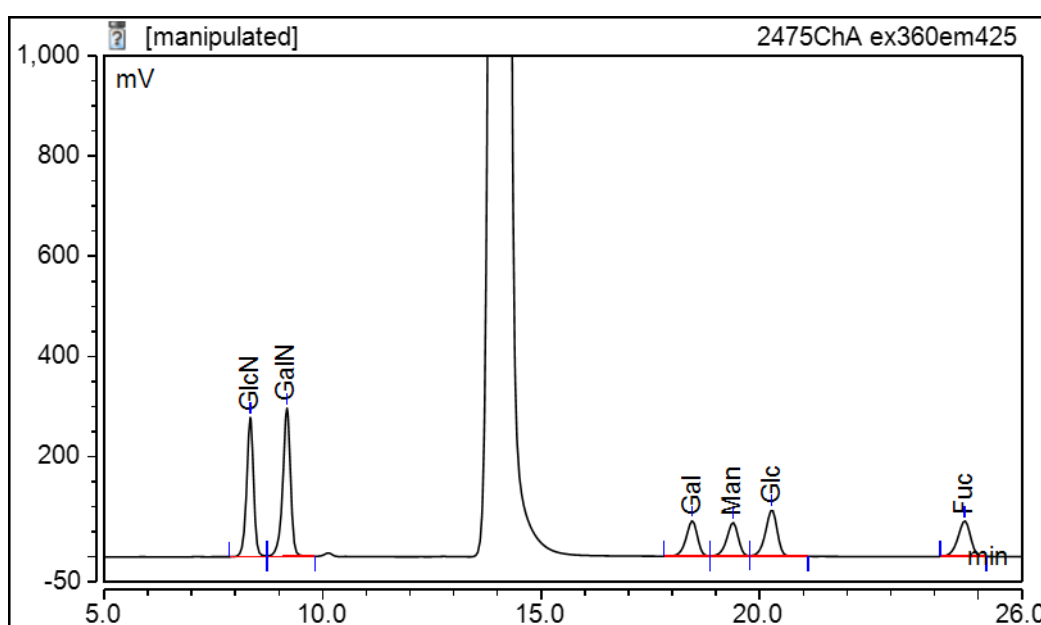
Cat. #: CM-MONO-MIX-10

Batch: B859-02

Size: 10 nmols

Expiry Date: 21 JUN 2023

The monosaccharide mix reference standard is a quantitative standard comprised of NIST-F and USP traceable glucosamine (GlcN), galactosamine (GalN), galactose (Gal), mannose (Man), glucose/dextrose (Glc) and fucose (Fuc) monosaccharides.



**Figure 1:** LudgerSep-R2 HPLC profile of 2-aminobenzoic acid (2-AA) labeled mono-mix. (Cat. #: CM-MONO-MIX-10, Batch B859-02). The peak between 13 to 15min is free dye.

**Accuracy:** The monosaccharide amounts are detailed in Table 1. This analysis was performed on 12 vials.

Monosaccharide	nmols monosaccharide per vial ( $\pm$ std dev)
GlcN	10.07 $\pm$ 0.99
GalN	10.22 $\pm$ 0.84
Gal	10.29 $\pm$ 0.73
Man	10.24 $\pm$ 0.73
Glc	10.30 $\pm$ 0.73
Fuc	10.20 $\pm$ 0.73

**Table 1:** Quantitative analysis of the monomix composition. Values are in nmols  $\pm$  standard deviation

**2-AA labeled monosaccharide standards eluted under the following HPLC conditions:**

Column: LudgerSep R2 (Cat. #: LS-R2-4.6x150)

Temperature: 35 °C

Solvent A: butylamine:phosphoric acid:tetrahydrofuran (BPT)

Solvent B: acetonitrile

Gradient:

Time (min)	% B	Flow rate (ml/min)
0	3.5	0.8
7	3.5	0.8
22.0	7.5	0.8
23.0	50.0	0.8
23.5	50.0	1.2
29.0	3.5	1.2
30.0	3.5	0.8
35.5	3.5	0.8

Detector: Fluorescence Excitation wavelength: 360 nm

Emission wavelength: 425 nm