

Certificate of Analysis

Monosaccharide Mix

Cat. #: CM-MONO-MIX-10

Batch: B7BL-02

Size: 10 nmols

Expiry Date: 22 NOV 2022

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.

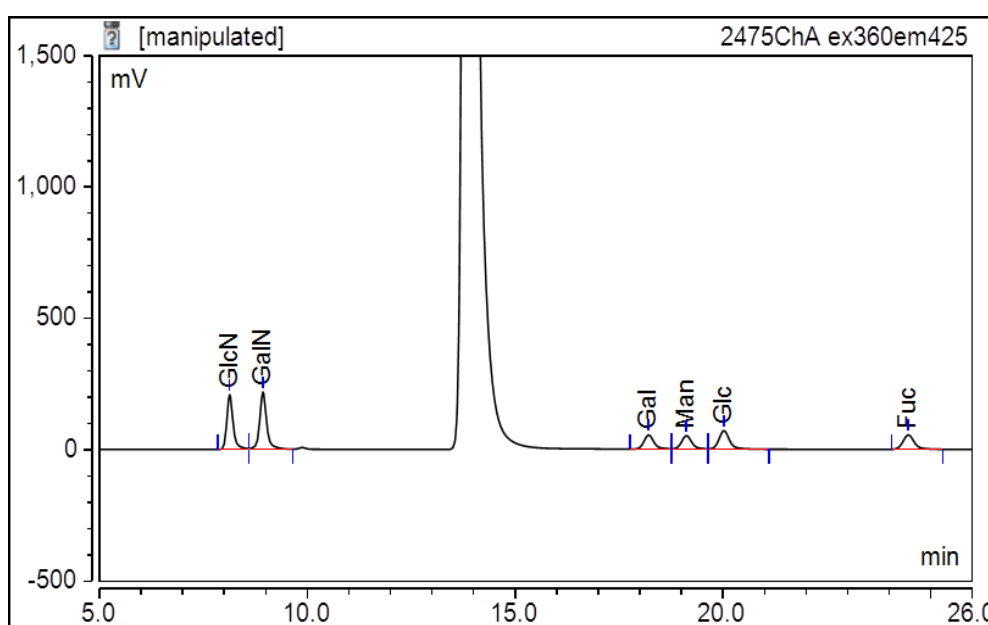


Figure 1: LudgerSep-R2 HPLC profile of 2-aminobenzoic acid (2-AA) labeled mono-mix. (Cat. #: CM-MONO-MIX-10, Batch B7BL-02). The peak between 13 to 15min is free dye.

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	9.56 \pm 0.61
GalN	9.52 \pm 0.62
Gal	9.73 \pm 0.74
Man	9.67 \pm 0.75
Glc	9.67 \pm 0.74
Fuc	9.73 \pm 0.77

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: water 2475

Excitation wavelength: 360 nm

Emission wavelength: 425 nm