

Certificate of Analysis

Monosaccharide Mix

Cat. #: CM-MONO-MIX-10

Batch: B633-03

Size: 10 nmols

Expiry Date: 18 May 2021

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.

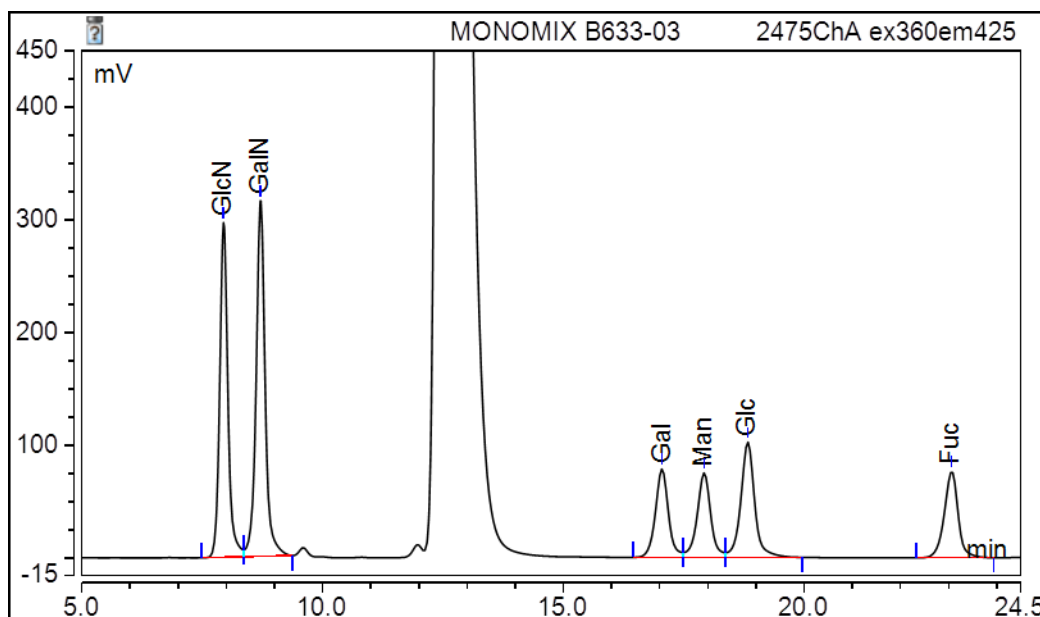


Figure 1: LudgerSep-R2 HPLC profile of 2-aminobenzoic acid (2-AA) labeled mono-mix. (Cat. #: CM-MONO-MIX-10, Batch B633-03). The peak between 12 to 14 min is free dye.

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

Monosaccharide	nmols monosaccharide per vial
GlcN	9.72 ± 0.23
GalN	9.85 ± 0.21
Gal	9.89 ± 0.16
Man	9.80 ± 0.15
Glc	9.83 ± 0.16
Fuc	9.83 ± 0.16

Table 1: Quantitative analysis of the monomix composition. Values are in nmols ±95% confidence interval.

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