

Certificate of Analysis

Monosaccharide Mix

Cat. #: CM-MONO-MIX-10

Batch: B271-01

Size: 10 nmols

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.

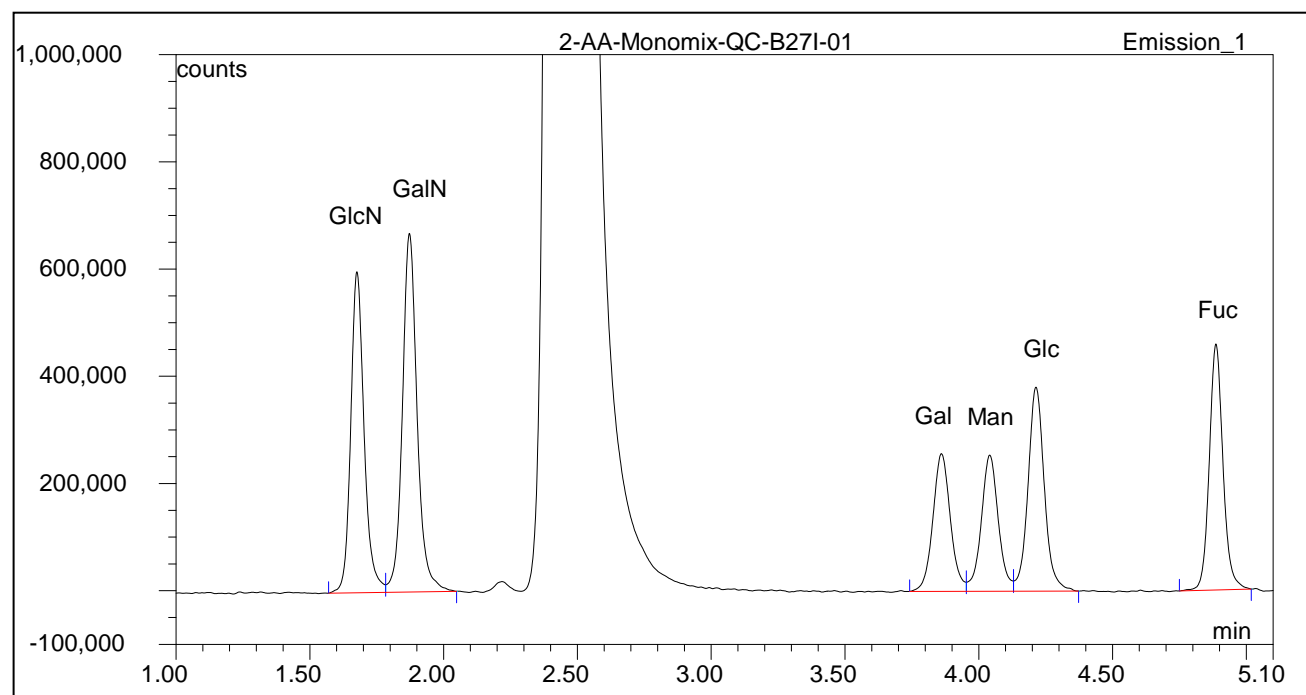


Figure 1: LudgerSep-uR2 HPLC profile of 2-aminobenzoic acid (2-AA) labeled mono-mix.

(Cat. #: CM-MONO-MIX-10, Batch B271-01). The peak between 2.3-2.8min 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	9.40 ± 0.16
GalN	9.80 ± 0.20
Gal	10.30 ± 0.21
Man	9.80 ± 0.20
Glc	10.41 ± 0.23
Fuc	10.33 ± 0.22

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 uR2 (Cat. #: LS-uR2-2.1x50)

Temperature: 35 °C

Solvent A: butylamine:phosphoric acid:tetrahydrofuran (Cat. #: LS-R-BPTX10)

Solvent B: acetonitrile

Gradient:

Time (min)	%B	Flow Rate (mL/min)
0.0	0.0	0.4
1.0	0.0	0.4
4.5	15.7	0.4
4.6	50.0	0.4
5.6	50.0	0.4
6.0	0.0	0.6
8.0	0.0	0.6

HPLC: Dionex U3000 Detector: Dionex FLD

Excitation wavelength: 360 nm

Emission wavelength: 425 nm