

Certificate of Analysis

Monosaccharide Mix

Cat. #: CM-MONO-MIX-10

Batch: B53O-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.

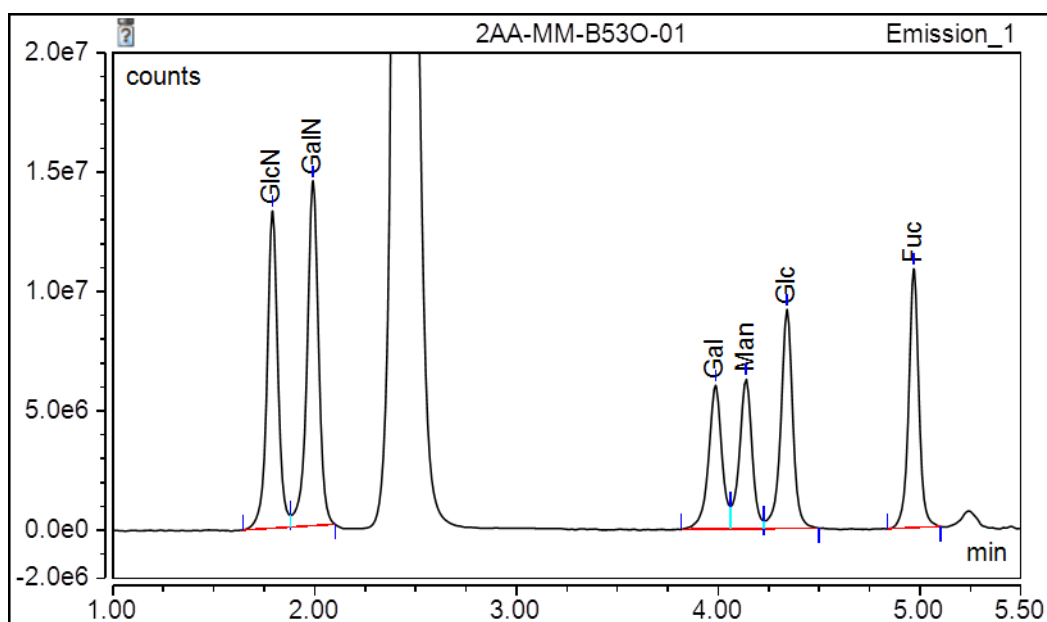


Figure 1: LudgerSep-uR2 HPLC profile of 2-aminobenzoic acid (2-AA) labeled mono-mix.

(Cat. #: CM-MONO-MIX-10, Batch B53O-01). The peak between 2 to 3 min is free dye.

Accuracy: The monosaccharide amounts are detailed in Table 1. This analysis was performed on 10 vials.

Monosaccharide	nmols monosaccharide per vial
GlcN	10.2 ± 0.11
GalN	10.9 ± 0.15
Gal	10.0 ± 0.13
Man	10.0 ± 0.13
Glc	10.4 ± 0.13
Fuc	10.0 ± 0.11

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-uR2-2.1x50)

Flow: 0.4 ml/min. Increasing to 0.6 ml/min at 6 min.

Temperature: 35 °C

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

Solvent B: acetonitrile

Gradient:

Time (min)	% B	Flow rate (ml/min)
0	0	0.4
1	0	0.4
4.5	15.7	0.4
4.6	50	0.4
5.6	50	0.4
6	0	0.6
8	0	0.6

HPLC: Dionex U3000 UPHPLC Detector: U3000 FLD Excitation wavelength: 250 nm

Emission wavelength: 425 nm