

Certificate of Analysis

Monosaccharide Mix

Cat. #: CM-MONO-MIX-10

Batch: B737-07

Size: 10 nmols

Expiry Date: 26 Apr 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.

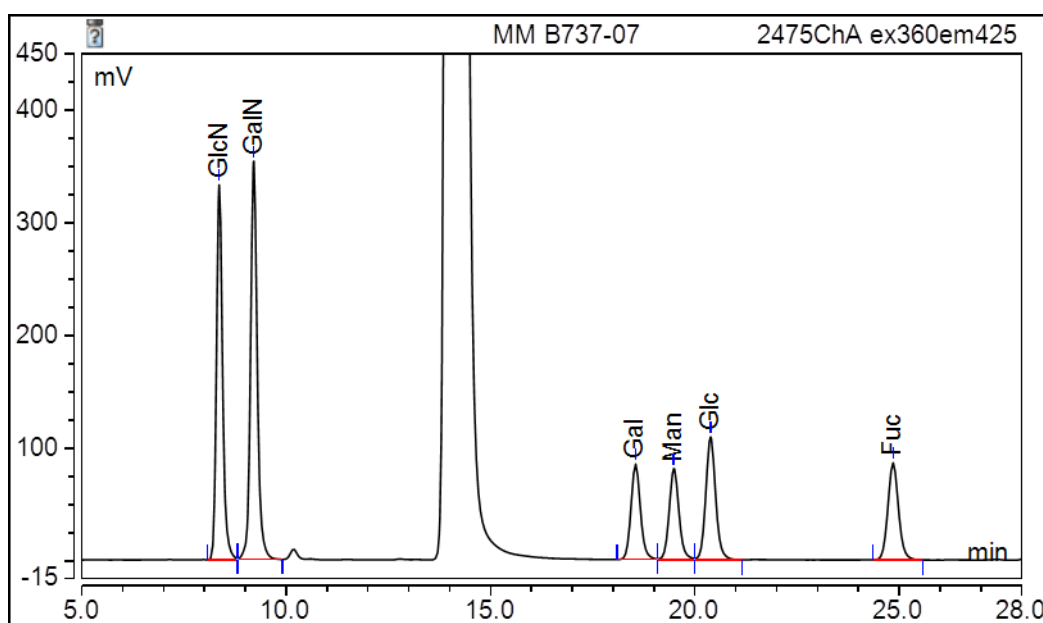


Figure 1: LudgerSep-R2 HPLC profile of 2-aminobenzoic acid (2-AA) labeled mono-mix. (Cat. #: CM-MONO-MIX-10, Batch B737-07). The peak between 12 to 14 min is free dye.

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

Monosaccharide	nmols monosaccharide per vial (\pm std dev)
GlcN	9.95 \pm 0.31
GalN	10.00 \pm 0.34
Gal	10.10 \pm 0.17
Man	10.11 \pm 0.19
Glc	10.09 \pm 0.19
Fuc	10.11 \pm 0.17

Table 1: Quantitative analysis of the monomix composition. Values 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