

Certificate of Analysis

Monosaccharide Mix

Cat. #: CM-MONO-MIX-10

Batch: B523-04

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.

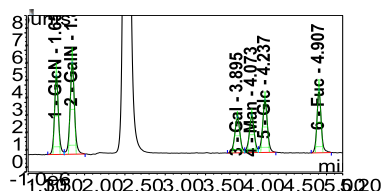


Figure 1: LudgerSep-uR2 HPLC profile of 2-aminobenzoic acid (2-AA) labeled mono-mix. (Cat. #: CM-MONO-MIX-10, Batch B523-04). The peak between 2 to 3 min is free dye.

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

Monosaccharide	Nmols monosaccharide per vial
GlcN	9.6 ± 0.44
GalN	9.5 ± 0.39
Gal	9.7 ± 0.35
Man	9.7 ± 0.34
Glc	10.0 ± 0.38
Fuc	9.90 ± 0.39

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