

LudgerTag Sialic Acid DMB Labeling Kit

Cat. #: LT-KDMB-A1 Batch #: B849-01

Size: 1 set of labeling reagents per kit Expiry Date: 16 Feb 2020

This kit conforms to the specifications given in Ludger document # LT-KDMB-A1-Guide.

Each kit contains the following components:

Quantity per Kit	Cat #	Batch #	Component Name
2	LT-ACETIC2M-01	B82E-02	Acetic Acid 2Molar
1	LT-MERCAPTO-01	B82E-06	Mercaptoethanol
1	LT-DITHIO-01	B82M-01	Sodium Dithionite
1	LT-DMB-01	B83Q-02	DMB Dye
1	CM-SRP-01	B81B-01	Sialic Acid Reference Panel
1	CM-NEUAC-01	B818-01	N-Acetyl Neuraminic acid
1	CM-NEUGC-01	B81G-01	N-Glycolyl Neuraminic acid

Sialic Acid Reference Panel

Cat. #: CM-SRP-01 Batch: B81B-01 Size: approx. 1.55 nmols

The sialic acid reference panel is a mixture of different sialic acids forms (as detailed on chromatogram below) sourced from bovine submaxillary mucin.

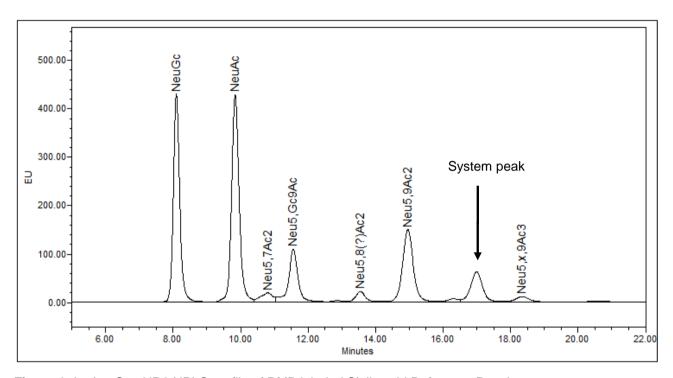


Figure 1: LudgerSep UR2 HPLC profile of DMB labeled Sialic acid Reference Panel (Cat. #: CM-SRP-01, Batch B81B-01).

DMB labeled SRP peaks seen above eluted under the following HPLC conditions:

Column: LudgerSep UR2 (1.9µm, 2.1x100mm)

Flow: 0.35 ml/min.

Temperature: 30 °C

Solvent: Methanol:Acetonitrile:Water (7:9:84 v/v)

NeuAc Standard

Cat. #: CM-NEUAC-01 Batch: B818-01

Size: 0.99 ± 0.04 nmol Expiry Date: 09 Jan 2023

The N-acetylneuraminic acid standard is a quantitative standard of NIST-F and USP traceable Neu5Ac monosaccharide.

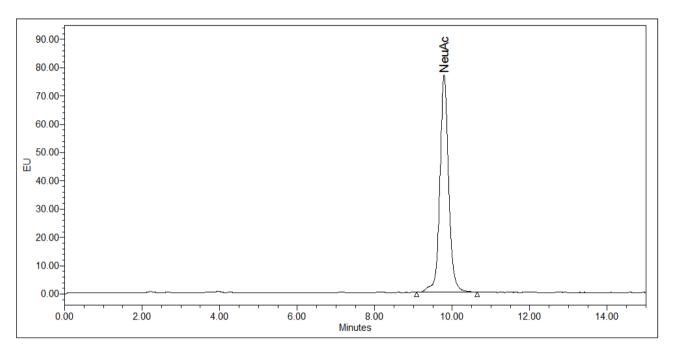


Figure 1: LudgerSep-R1 HPLC profile of 1,2-diamino-4,5-methylenedioxybenzene.2HCl (DMB) labeled NeuAc standard (Cat. #: CM-NEUAC-01, Batch B818-01).

Accuracy: This analysis was performed on 12 vials of CM-NEUAC-01.

The dispensed amount was determined as 0.99 ± 0.04 nmol NeuAc per vial.

Values are in nmols ± standard deviation.

DMB labeled sialic acid standards eluted under the following HPLC conditions:

Column: LudgerSep R1 (Cat. #: LS-R1-4.6x150)

Flow: 0.5 ml/min.

Temperature: 30 °C

Solvent A: methanol:acetonitrile:water (7:9:84)

Solvent B: acetonitrile

Gradient:

Time (min)	%B
0.0	0.0
19.0	0.0
19.5	90.0
23.5	90.0
24.0	0.0
30.0	0.0
35.0	0.0

Detector: Fluorescence

Excitation wavelength: 373 nm Emission wavelength: 448 nm

NeuGc Standard

Cat. #: CM-NEUGC-01 Batch: B81G-01
Size: 1.05 ± 0.06 nmol Expiry Date: 17 Jan 2023

The N-glycolylneuraminic acid standard is a quantitative standard of NIST-F and USP traceable Neu5Gc monosaccharide.

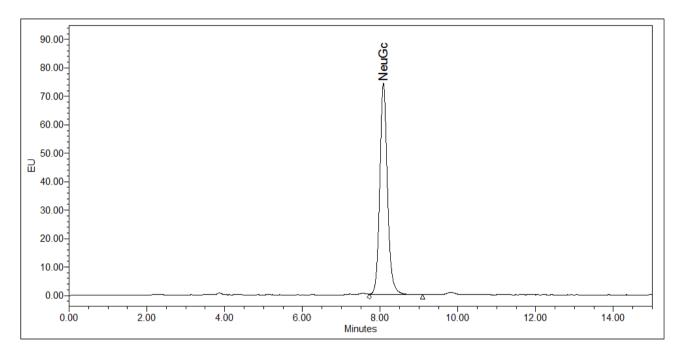


Figure 1: LudgerSep-R1 HPLC profile of 1,2-diamino-4,5-methylenedioxybenzene.2HCl (DMB) labeled NeuGc standard (Cat. #: CM-NEUGC-01, Batch B81G-01).

Accuracy: This analysis was performed on 12 vials of CM-NEUGC-01.

The dispensed amount was determined as 1.05 \pm 0.06 nmol NeuGc per vial.

Values are in nmols \pm standard deviation.

DMB labeled sialic acid standards eluted under the following HPLC conditions:

Column: LudgerSep R1 (Cat. #: LS-R1-4.6x150)

Flow: 0.5 ml/min.

Temperature: 30 °C

Solvent A: methanol:acetonitrile:water (7:9:84)

Solvent B: acetonitrile

Gradient:

Time (min)	%В
0.0	0.0
19.0	0.0
19.5	90.0
23.5	90.0
24.0	0.0
30.0	0.0
35.0	0.0

Detector: Fluorescence

Excitation wavelength: 373 nm Emission wavelength: 448 nm