



## Certificate of Conformity

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### LudgerTag Sialic Acid DMB Labeling Kit

Cat. #: LT-KDMB-A1

Batch #: B43A-02

Size: 1 set of labeling reagents per kit

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

Each kit contains the following components:

| Quantity per Kit | Catalogue number | Batch number | Component Name              |
|------------------|------------------|--------------|-----------------------------|
| 2                | LT-ACETIC2M-01   | B386-02      | Acetic Acid 2Molar          |
| 1                | LT-MERCAPTO-01   | B388-01      | Mercaptoethanol             |
| 1                | LT-DITHIO-01     | B42H-01      | Sodium Dithionite           |
| 1                | LT-DMB-01        | B42D-01      | DMB Dye                     |
| 1                | CM-SRP-01        | B425-01      | Sialic Acid Reference Panel |
| 1                | CM-NEUAC-01      | B3C5-02      | N-Acetyl Neuraminic acid    |
| 1                | CM-NEUGC-01      | B3C9-02      | N-Glycolyl Neuraminic acid  |

Expiry Date: 13<sup>th</sup> February 2016

## Certificate of Analysis

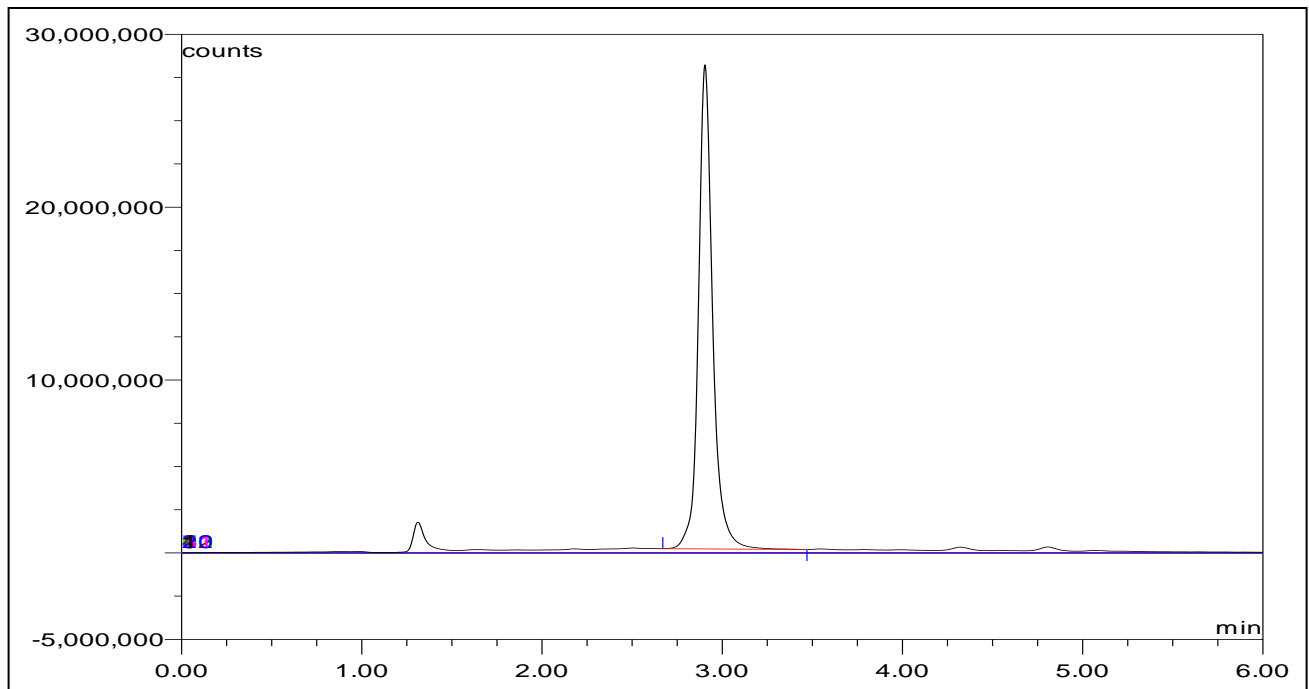
### NeuAc Standard

Cat. #: CM-NEUAC-01

Batch: B3C5-02

Size:  $1.31 \pm 0.03$  nmol

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



**Figure 1:** LudgerSep-uR2 HPLC profile of 1,2-diamino-4,5-methylenedioxybenzene.2HCl (DMB) labeled NeuAc standard (Cat. #: CM-NEUAC-01, Batch B3C5-02).

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

**The dispensed amount was determined as  $1.31 \pm 0.03$  Nmole NeuAc per vial\*.**

Values are in Nmols  $\pm 95\%$  confidence interval.



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

Column: LudgerSep uR2 (Cat. #: LS-uR2-2.1x100)

Flow: 0.25 ml/min.

Temperature: 30 °C

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

Gradient: 0-10 min: 100% Solvent A

HPLC: Dionex U3000 UHPLC Detector: U3000 FD

Excitation wavelength: 373 nm Emission wavelength: 448 nm

## Certificate of Analysis

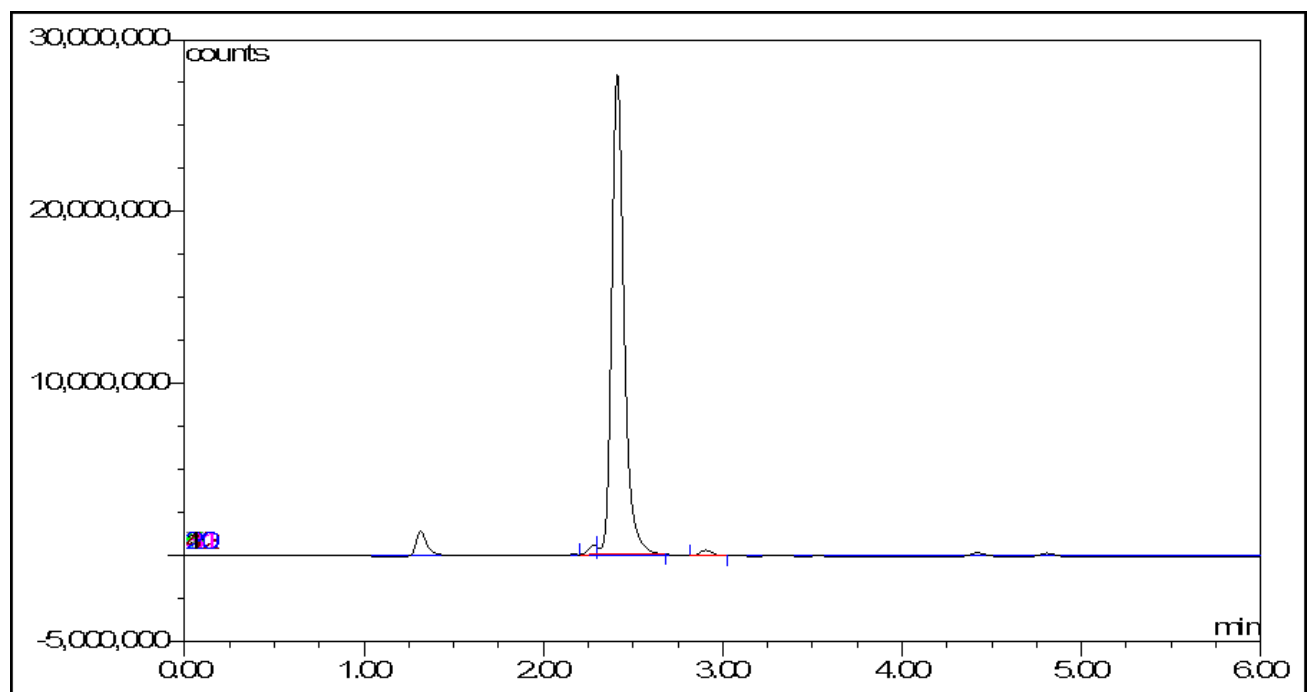
### NeuGc Standard

Cat. #: CM-NEUGC-01

Batch: B3C9-02

Size:  $1.13 \pm 0.02$  nmol

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



**Figure 1:** LudgerSep-uR2 HPLC profile of 1,2-diamino-4,5-methylenedioxybenzene.2HCl (DMB) labeled NeuGc standard (Cat. #: CM-NEUGC-01, Batch B3C9-02).

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

**The dispensed amount was determined as  $1.13 \pm 0.02$  Nmole NeuGc per vial.**

Values are in Nmols  $\pm 95\%$  confidence interval.



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

Column: LudgerSep uR2 (Cat. #: LS-uR2-2.1x100)

Flow: 0.25 ml/min.

Temperature: 30 °C

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

Gradient: 0-10 min: 100% Solvent A

HPLC: Dionex U3000 UHPLC Detector: U3000 FD

Excitation wavelength: 373 nm Emission wavelength: 448 nm