



## Certificate of Analysis

### Neu5,9Ac2 Standard

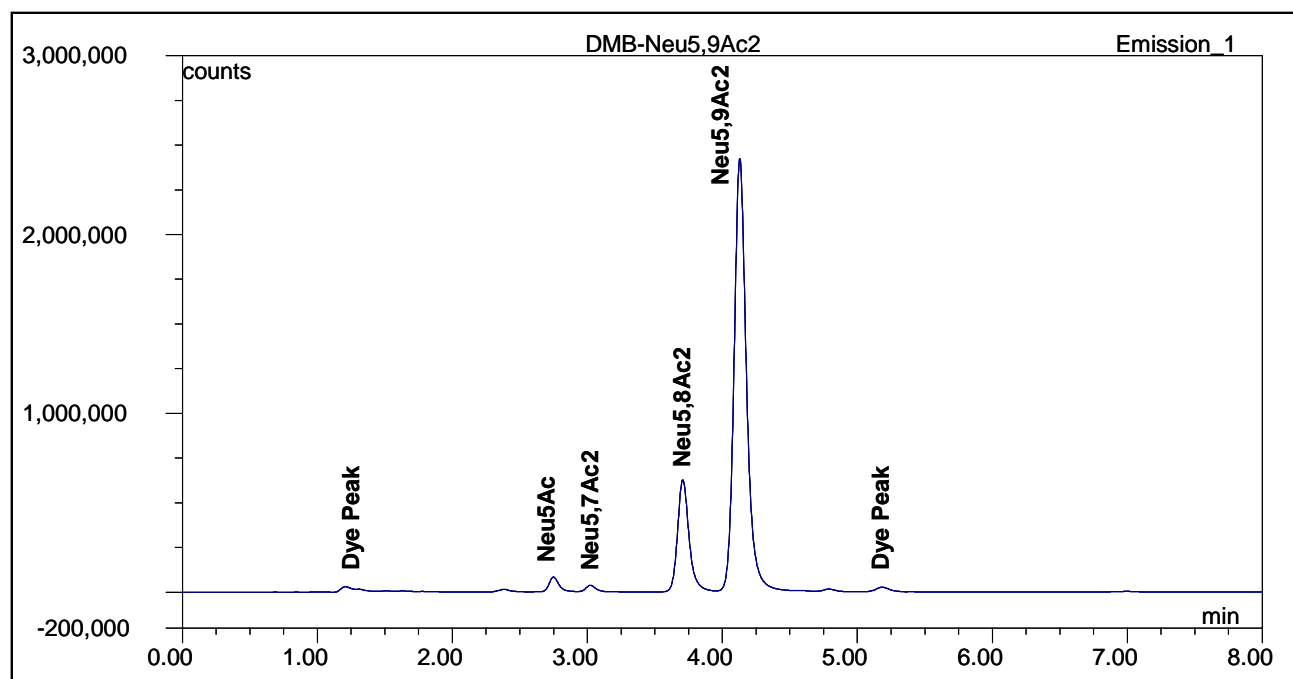
Cat. #: CM-NEU5,9AC2-01

Batch: B2A4-03

Size: ~1 nmol (of which ~800 pmol is Neu5,9Ac2)

**This product is only for use as a chromatography standard and should be not used as a quantitative standard.**

This sialic acid standard is a mixture of various sialic acids (see table 1). The main sialic acid species present, 5-N-acetyl-9-O-acetyl neuraminic acid (Neu5,9Ac2), makes up 78 % of the mixture.



**Figure 1:** LudgerSep-uR2 HPLC profile of 1,2-diamino-4,5-methylenedioxybenzene.2HCl (DMB) labeled Neu5,9Ac2 standard (Cat. #: CM-NEU5,9AC2-01, Batch B24A-03).

Sialic acid	Relative % area
Neu5Ac	2
Neu5,7Ac2	1
Neu5,8Ac2	19
<b>Neu5,9Ac2</b>	<b>78</b>

**Table 1:** Relative amounts of each sialic acid species present in this sialic acid standard.



***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