

Certificate of Analysis

Neu5,9Ac2 Standard

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

Batch: B591-03

Size: ~1 nmol(of which 770pmol is Neu5,9Ac2)

Expiry Date: 02 Sep 2020

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 77 % of the mixture.

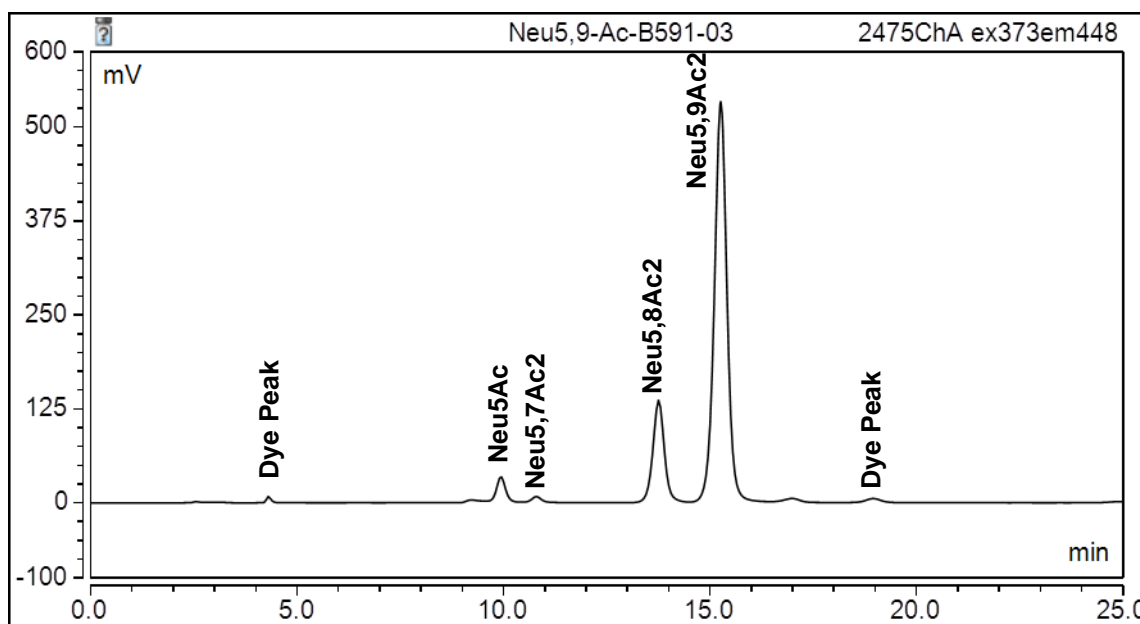


Figure 1: LudgerSep-R1 HPLC profile of 1,2-diamino-4,5-methylenedioxybenzene.2HCl (DMB) labeled Neu5,9Ac2 standard (Cat. #: CM-NEU5,9AC2-01, Batch B591-03).

Sialic acid	Relative % area
Neu5Ac	3
Neu5,7Ac2	1
Neu5,8Ac2	18
Neu5,9Ac2	77

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

Flow: 0.5 ml/min.

Temperature: 30 °C

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

Gradient: 0-10 min: 100% Solvent A

HPLC: Waters 2795

Detector: Waters 2475

Excitation wavelength: 373 nm

Emission wavelength: 448 nm