

determination of sialic acids pdf

[10] Determination of Sialic Acids By GERD REUTER and ROLAND SCHAUER Introduction Sialic acids are constituents of glycoconjugates in some viruses, bacteria, protozoa, and a wide range of higher animals.

[10] Determination of sialic acids - ScienceDirect

sialic acid contents and different sialic acid proportions compared to human milk. Because of the critical role these carbohydrates play in infant development, many manufacturers enrich infant formulas with sialic acids to more closely mimic human milk. Sialic acid determination in a complex matrix, such as a dairy product, presents many challenges.

Determination of Sialic Acids Using UHPLC with

comparing the response in the sample to a standard curve of each sialic acid $\hat{=}$ Analysis in conjunction with several standards provides a robust method for quantitation. The standards used are: 1. Qualitative sialic acid reference panel (SRP) containing a mixture of sialic acids found in humans and animals.

Analysis of Sialic Acids in Biopharmaceuticals - Ludger

The determination of sialic acids in serum, urine, or tissues or on cells is often used in clinical applications, because it seems to be a valuable marker for certain malignancies.

Determination of Sialic Acids | Request PDF - ResearchGate

ANALYTICAL BIOCHEMISTRY 23, 150-155 (1968) An Automated Determination of Sialic Acids A. P. KENDAL Department of Bacteriology, University College Hospital Medical School, London, England Received July 10, 1967 Sialic acids are found widely distributed in biological materials, and it has been shown that variation in their concentration in any one system may be associated with pathological processes (1).

An automated determination of sialic acids - ScienceDirect

The linkage to the sialic acid residues was homogeneous in each polysaccharide; to C-9 in that of C, to C-S in that of B (identical in structure to colominic acid), and to C-4 in those of Y and W-135.

Determination of the linkages in some methylated, sialic

Sialic acids determination is possible by both HPAE-PAD and UHPLC-FLD methods. Figure 1 shows the separation of a sialic acids standard by HPAE-PAD. Both Neu5Ac and Neu5Gc are easily determined within 10 min.5 FIGURE 1. Separation of sialic acid standards using a Thermo Scientific Dionex CarboPac PA20 column.

Sialic Acid Determination in Glycoproteins: Comparison of

HPAE-PAD Determination of Infant Formula Sialic Acids . Application Note 253. Introduction. Dietary sialic acids are important for infant development, serving both immune system and cognitive development roles. 1. Although these functionalized neuraminic acids are present in all mammalian milk, the proportions vary significantly according to the species.

HPAE-PAD Determination of Infant Formula Sialic Acids

An Alternate Approach for Sialic Acid Estimation in Glycoproteins ... The released sialic acid can be analyzed by several analytical methods like resorcinol, thiobarbituric acid, DMB fluorometric methods, etc. ... Direct determination of sialic acids in glycoprotein hydrolyzates by HPAEC-PAD.

An Alternate Approach for Sialic Acid Estimation in

Sialic acids are a family of nine-carbon acidic monosaccharides that occur ... Produced in the U.S.A. December 2016 720005550EN AG-PDF CONCLUSIONS ... Nakamura, M. Determination of mono-O-acetylated N-acetylneuraminic acids in human and rat sera by fluorometric high-performance liquid chromatography.

DMB-Labeled Sialic Acid Analyses Using HPLC-, UHPLC-, and

Plasma or serum sialic acid has been established as a potential tumour marker. More recently it has been shown that elevated serum sialic acid is a risk factor for cardiovascular mortality. A ...

The determination of plasma or serum sialic acid | Request PDF

J. Lipid Research, April, 1962 Volume 3, Number 2 A silicic acid adsorption method for the determination of ganglioside sialic acid* R. H. MCCLUER, E. H. CORAM, and H. S. LEE Columbus Psychiatric Institute and Hospital and Department of Physiological Chemistry, Ohio State University, Columbus 10, Ohio [Received for publication October 9, 1961] ...

J. April, 1962 3, silicic acid adsorption method for the

Sialic acid analysis is a regulatory requirement laid out in the ICH Q6B guidelines for characterisation of biopharmaceuticals. In particular, determination of relative levels of human and non-human type sialic acids

Ludger Sialic Acid Analysis Guide I: NeuAc and NeuGc

The Sialic Acid Quantitation Kit provides a rapid and accurate determination of total N-acetylneuraminic acid (NANA; sialic acid). NANA is released from glycoconjugates using neuraminidase. The kit uses $\hat{I}\pm(2\hat{a}\dagger'3,6,8,9)$ neuraminidase to cleave all NANA linkages, including $\hat{I}\pm(2\hat{a}\dagger'8)$ and $\hat{I}\pm(2\hat{a}\dagger'9)$ linkages, as well as branched NANA, for the most accurate determination of total sialic acid content.

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