CREATIVE BIOMART®
Assay Kit

Sialic Acid Assay Kit

Product Information

Cat

Kit-2477

Cat.No. Kit-2477

Product Overview

Sialic acid is a general name for nine carbon acidic sugars with N- or O-substituted derivatives. The most common member of these sugars is N-acetylneuraminic acid (NANA). Sialic acid is widely distributed throughout mammalian tissues and fluids including serum. Sialylated oligosaccharides have been shown to exhibit antiviral properties and are also known to influence blood coagulation and cholesterol levels. The Sialic acid level in body fluids is also an important marker for diagnosing cancer. Simple, direct and automation-ready procedures for measuring sialic acid concentrations find wide applications in research and drug discovery. sialic acid assay uses a single Working Reagent that combines NANA aldolase, pyruvate oxidase and hydrogen peroxide determination in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at λex/em = 530/585nm is directly proportional to sialic acid concentration in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method OD570nm, or FL530/585nm

Compatible Sample Types

Biological

Features & Benefits

Sensitive and accurate. Use as little as 10 µL samples. Linear detection range in 96-well plate: 0.02 to

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1 mM sialic acid for colorimetric assays and 2 to 100 µM for fluorimetric assays.
Simple and convenient. Can detect free sialic acid by addition of a single working reagent and incubation for 60 min at room temperature or total sialic acid by pre-treating samples with a 60 min hydrolysis step.

Assay time
2 hrs
Sensitivity
OD, FL: 20, 2 µM

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