



Sphingomyelin Assay Kit

Product Information

Cat.No.

Kit-0796

Product Overview

Sphingomyelin Assay Kit provides a method for quantifying sphingomyelin in plasma or serum.

Description

Sphingomyelin (ceramide phosphorylcholine) is an important lipid component of cell membranes and lipoproteins. It consists of a ceramide moiety linked via a phosphodiester bond to phosphorylcholine. Sphingomyelinases are a family of enzymes that can hydrolyze sphingomyelin into ceramide and phosphorylcholine. Ceramides have been implicated as key mediators in signaling pathways, with outcomes as diverse as cell proliferation, differentiation, growth arrest, and apoptosis. An inherited deficiency of acid sphingomyelinase activity results in the sphingomyelin storage disorder Niemann-Pick disease. This disease results in the accumulation of sphingomyelin in cells, tissues, and fluids. Since sphingomyelin has been implicated in the pathogenesis of several diseases, including atherosclerosis, sensitive and reliable techniques for its quantification are of considerable importance.

Usage

For research use only (RUO)

Storage

This kit will perform as specified if stored at 4°C and used before the expiration date indicated on the outside of the box.

Kit Components

SM Buffer (10X) 1 vial
SM Color Detector 2 vials
SM Enzyme Mixture 2 vials
SM Alkaline Phosphatase 1 vial
Sphingomyelinase 1 vial
Sphingomyelin Standard 1 vial
SM Detergent Solution 1 vial
96-Well Plate (Colorimetric Assay) 1 plate
96-Well Cover Sheet 1 cover
