

Sphingomyelin Colorimetric Assay Kit

Cat. No. Kit-0797 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Sphingomyelin Assay Kit (Colorimetric) is used for measuring sphingomyelin using colorimetric methods.
Description	Sphingomyelin is an important structural lipid component of cell membranes and lipoproteins. Sphingomyelin has been implicated in the pathogenesis of several diseases; therefore a sensitive and reliable technique for its quantification is of considerable importance. Sphingomyelin Assay Kit (Colorimetric) provides a simple and sensitive method for quantifying sphingomyelin using colorimetry. In the assay, sphingomyelin is hydrolyzed into ceramide and phosphorylcholine by sphingomyelinase. Alkaline phosphatase (ALP) dephosphorylates phosphorylcholine to choline, which then reacts with Sphingomyelin Enzyme Mix to produce an intermediate. The intermediate reacts with a highly specific probe to generate color (OD 570 nm). The kit can detect sphingomyelin in various biological samples as low as 1 μ M.
Applications	Sphingomyelin quantification in various biological samples Analysis of cell signaling pathway
Usage	For research use only (RUO)
Storage	Store kit at -20°C, protected from light. Warm SM Assay Buffer to room temperature before use. Read the entire protocol before performing the assay
Kit Components	SM Assay Buffer 100 ml OxiRed Probe 0.2 ml Sphingomyelinase (Lyophilized) 1

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	vialALP Enzyme (Lyophilized) 1 vialSM Standard (5 mM) 50 µl
Detection method	Colorimetric
Compatible Sample Types	Biological samples, Cell Samples, Tissue Samples

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