



## Sphingomyelin Colorimetric Assay Kit

### Product Information

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#### Cat.No.

Kit-0797

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#### Product Overview

Sphingomyelin Assay Kit (Colorimetric) is used for measuring sphingomyelin using colorimetric methods.

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#### 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  $\mu$ M.

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#### Applications

Sphingomyelin quantification in various biological samples  
Analysis of cell signaling pathway

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#### Usage

For research use only (RUO)

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#### 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

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#### Kit Components

SM Assay Buffer 100 ml  
OxiRed Probe 0.2 ml  
Sphingomyelinase (Lyophilized) 1 vial  
ALP Enzyme (Lyophilized) 1 vial  
SM Standard (5 mM) 50  $\mu$ l

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CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Sphingomyelin Colorimetric Assay Kit

**Detection method** Colorimetric

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**Compatible Sample Types**

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Biological samples, Cell Samples, Tissue Samples

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Tel: 1-631-559-9269 1-516-512-3133

Fax: 1-631-938-8127

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)

45-1 Ramsey Road, Shirley, NY 11967, USA