

## sPLA2 Activity Assay Kit

### Product Information

**Cat.No.**

Kit-0699

**Product Overview**

PLA2 (sPLA2) Assay kit provides an accurate and convenient method for measurement of sPLA2 activity. This assay uses the 1,2-dithio analog of diheptanoyl phosphatidylcholine which serves as a substrate for most PLA2s (for example, bee and cobra venoms, pancreatic, etc.) with the exception of cytosolic PLA2. Upon hydrolysis of the thio ester bond at the sn-2 position by PLA2, free thiols are detected using DTNB (5,5-dithio-bis-(2-nitrobenzoic acid)).

**Description**

Phospholipase A2 (PLA2) catalyzes the hydrolysis of phospholipids at the sn-2 position yielding a free fatty acid and a lysophospholipid. The release of arachidonic acid from membrane phospholipids by PLA2 is believed to be a key step in the control of eicosanoid production within the cell.

**Usage**

Please read these instructions carefully before beginning this assay. For research use only. Not for human or diagnostic use.

**Storage**

Stability: 1 year; Storage: -20°C; This kit will perform as specified if stored at -20°C and used before the expiration date indicated on the outside of the box.

**Kit Components**

sPLA2 Assay Buffer (10X): 1 vial; sPLA2 DTNB: 4 vials; sPLA2 Diheptanoyl Thio-PC (Substrate): 2 vials; Bee venom PLA2 Control: 1 vial; 96-Well Plate (Colorimetric Assay): 1 plate; 96-Well Cover Sheet: 1 cover.