

Phospholipid FlashPlate[®] Coating Buffer, 10X Concentrate SMP900, SMP900A

Product Description

This product is an optimized buffer to be used with the Phospholipid FlashPlate PLUS products (SMP108, SMP108A). Applications include enzyme assays with lipid-associated substrates such as a phospholipase C assay.

Materials Included

Phospholipid FlashPlate Coating Buffer,
50 mL size
Catalog #: SMP900
Buffer Solution - 50 mL
Technical Data Sheet - 1

Phospholipid FlashPlate Coating Buffer,
200 mL size
Catalog #: SMP900A
Buffer Solution - 200 mL
Technical Data Sheet - 1

Storage and Stability

Store SMP900 and SMP900A at 4 °C. Stable until expiration date when stored under this condition.

Instructions for Use

The 10X buffer solution should be diluted 1:10 in distilled water.

Recommended Plate Coating Procedures.

Substrate Coating Titration and Plate Coating

1. Dilute the Phospholipid FlashPlate Coating Buffer to a 1X solution in distilled water.
2. Dilute the radiolabeled, or unlabeled lipid substrate to various concentrations in 1X Coating Buffer. It is suggested when using an unlabeled substrate, to monitor the coating process with a similar labeled substrate as a control.
3. Choose a wide concentration range, nM - μ M, for titering the substrate. For example, when coating with [³H]PIP₂, a nM concentration of substrate is sufficient to yield 5000 - 8000 cpm/well (however, a longer incubation time will immobilize more substrate). An overnight incubation time is typically recommended for coating the substrate.
4. Aspirate.

The substrate should now be immobilized by the hydrophobic interaction of the lipid substrate and the lipid layer on the FlashPlate. At this point, if a labeled substrate was used as a control, the plate can be counted to determine the mass of substrate immobilized to the plate.

Plate Preparation

1. Coat the plates with the appropriate concentration of substrate diluted in coating buffer, at 200 μ L/well.
2. Incubate overnight at room temperature.
3. Aspirate.

Suggested Applications

Enzyme applications which can be run on the Phospholipid FlashPlate include sphingosine kinase, sphingomyelinase, phospholipase C and phospholipase D.

Hazard Warning

This product is considered to be non-hazardous. Although the product is classified as nonhazardous, the use of prudent laboratory practices, such as wearing gloves, eye protection and lab coat, is strongly recommended when using this or any laboratory reagent.

For a complete listing of our global offices, visit www.perkinelmer.com/lasoffices

FlashPlate is a registered trademark of PerkinElmer, Inc. and protected under U.S. patent number 5,496,502 and foreign equivalents.