



## ProFoldin

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## INSTRUCTIONS

### ProFoldin

### Liposomal Fluorescence Dyes

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**Liposomal Acridine Orange Dye**

**Catalog No. DPC001AO**

**Liposomal Rhodamine G Dye**

**Catalog No. DPC001RG**

**Liposomal Fluorescein Dye**

**Catalog No. DPC001FL**

**PEGylated Liposomal Acridine Orange Dye**

**Catalog No. PHC001AO**

**PEGylated Liposomal Rhodamine B Dye**

**Catalog No. PHC001RB**

## INTRODUCTION

Fluorescence dyes encapsulated in liposomes are used to track liposome distributions in biological systems. The pH-sensitive fluorescence dyes such as Rhodamine delivered by liposomes into cells may be used to monitor pH changes in the cells. The liposomal fluorescence dyes contain 0.1 mM fluorescence dyes encapsulated in PEGylated or non-PEGylated liposomes. The total lipid concentration is 10 mg/ml. The PEGylated liposomes are composed of hydrogenated soy phosphocholine (HSPC), 1,2-distearoyl-*sn*-glycero-3-phosphoethanolamine-N-[methoxy(polyethylene glycol)-2000] (DSPE-PEG2000) and cholesterol in a mass ratio of HSPC:DSPE-PEG2000:Cholesterol = 3:1:1. The non-PEGylated liposomes are composed of 1,2-dipalmitoyl-*sn*-glycero-3-phosphocholine (DPPC) and cholesterol in a mass ratio of 1.9:1. The fluorescence dye encapsulation percentage is more than 99 %. The average size of liposomes is about 80 nm with a poly dispersity index (dpi) of 0.1.

Catalog No	Fluorescence Dye	Excitation	Emission	Liposome composition (w/w)
DPC001AO	Acridine orange	485 nm	535 nm	DPPC:Cholesterol = 1.9:1
DPC001RG	Rhodamine G	520 nm	580 nm	DPPC:Cholesterol = 1.9:1
DPC001FL	Fluorescein	485 nm	535 nm	DPPC:Cholesterol = 1.9:1
PHC001AO	Acridine orange	485 nm	535 nm	HSPC:DSPE-PEG2000:Cholesteol = 3:1:1
PHC001RB	Rhodamine B	520 nm	580 nm	HSPC:DSPE-PEG2000:Cholesteol = 3:1:1

The **Liposomal Fluorescence Dye** includes 1 ml of 0.1 mM fluorescence dye encapsulated in liposomes.

## RELATED PRODUCTS

### Liposome products:

BPD100K	Lipid Bilayer Permeability Disruption Assay Kit
SLP20	Spin-columns for Liposome Purification
LDE10	Liposome Drug Encapsulation Assay Kit
LDD05	Liposome Drug Dissolution Assay Kit
LIP1000	MicroGram Lipid Assay Kit
SPS20	Liposome Plasma Stability Test Kit

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DPC100AS	Ready-to-load DPPC Liposomes with Ammonium Sulfate
DPC002MG	Liposomal Magnesium
DPC002CA	Liposomal Calcium
DPPC002CP	DPPC Liposomal Ciprofloxacin- 2 mg
PHPC002CP	PEGylated HSPC Liposomal Ciprofloxacin- 2 mg
PHPC002DX	PEGylated Liposomal Doxorubicin- 2 mg

### **Nanodisc products:**

SMA31-100MG	Styrene - Maleic Acid Copolymer 3:1 Free Acid- 100 mg
SMA31S-100MG	Styrene - Maleic Acid Copolymer 3:1 Sodium Salt- 100 mg
SMA21-100MG	Styrene - Maleic Acid Copolymer 2:1 Free Acid- 100 mg
MA21S-100MG	Styrene - Maleic Acid Copolymer 2:1 Sodium Salt- 100 mg

### **Detergent and lipid products:**

DAK1000	Detergent assay kit
SDS200	NanoGram SDS Assay Kit
CMC1000	Detergent Critical Micelle Concentration (CMC) Assay Kit
LIP1000	MicroGram Lipid Assay Kit

For more information of liposome and nanodisc products, please visit our website at [www.profoldin.com](http://www.profoldin.com).