



ProFoldin

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INSTRUCTIONS

ProFoldin

Liposomal Fluorescence Dyes

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. PHPC001AO

PEGylated Liposomal Rhodamine B Dye

Catalog No. PHPC001RB

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
PHPC001AO	Acridine orange	485 nm	535 nm	HSPC:DSPE-PEG2000:Cholesteol = 3:1:1
PHPC001RB	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:

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

DPC100AS

Ready-to-load DPPC Liposomes with Ammonium Sulfate



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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.