



ProFoldin

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INSTRUCTIONS

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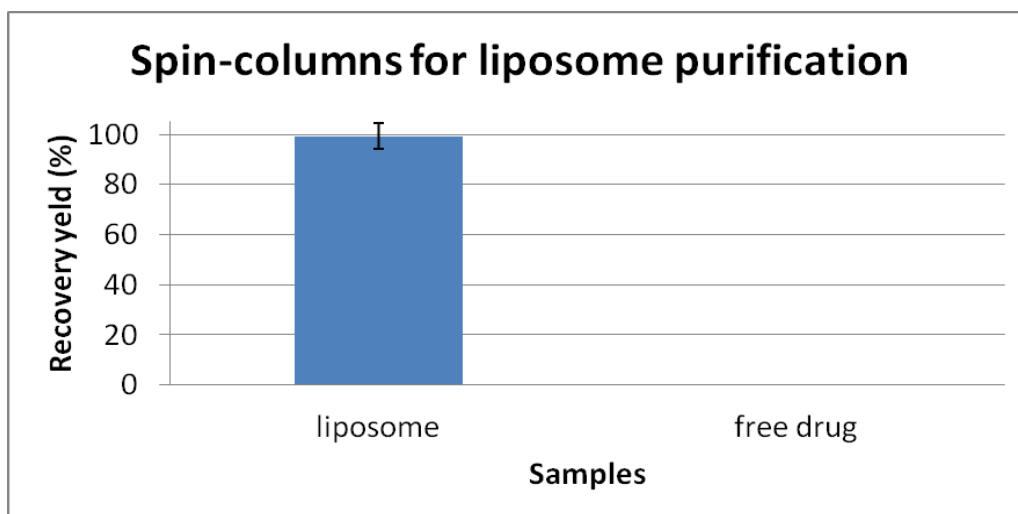
Spin-columns for Liposome Purification

CATALOG NUMBER

SLP20

INTRODUCTION

The **Spin-columns for Liposome Purification** (Catalog number SLP20) is designed for quick removal of free or non-encapsulated drugs. It removes > 99 % of the non-encapsulated drugs in a few minutes. Removal of the non-encapsulated drugs is based on a combination effect of absorbance and size exclusion. When a purified 2 mg/ml liposomal doxorubicin is loaded, 99.3% liposomal doxorubicin is recovered. When a 2 mg/ml free doxorubicin is loaded, 0.2 % free doxorubicin is recovered.



The **Spin-columns for Liposome Purification** (Catalog number SLP20) includes 20 pre-packed spin columns. The pre-packed columns are specifically designed for removal of free drugs in a liposome sample. A minimal amount of liposomes may also bind to the column. For liposomal drug encapsulation and liposomal drug dissolution tests, please use assay kits specifically designed for drug encapsulation assays (Catalog number LDE10) or drug dissolution assays (Catalog number LDD05).

PROTOCOL

1. Column preparation

- (1) Remove the caps of 1.5-ml Eppendorf tubes and use them as receiver tubes. Remove the bottom tip and the cap of each spin column and insert the column into a receiving tube.
 - (2) Spin the columns at 1000 rpm using a benchtop Eppendorf centrifuge for 1 min and discard the elute.
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- (3) Repeat Step (2).
- (4) Add 150 μ l of the same buffer of the liposome preparation, spin the columns at 1000 rpm for 2 min and discard the elute.
- (5) Spin the columns at 1000 rpm for 4 min and change to a clean receiving tube.

2. Separation of encapsulated drugs

- (1) Load 100 μ l of the liposome sample onto each column.
- (2) Spin the column at 1000 rpm for 4 min. Collect the elute. Discard the column.

RELATED PRODUCTS

Liposome products:

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
DPPC002CP	DPPC Liposomal Ciprofloxacin- 2 mg
PHPC002CP	PEGylated HSPC Liposomal Ciprofloxacin- 2 mg
PHPC002DX	PEGylated Liposomal Doxorubicin- 2 mg
DPC001AO	Liposomal Acridine Orange Dye
DPC001RG	Liposomal Rhodamine G Dye
DPC001FL	Liposomal Fluorescein Dye
PHC001AO	PEGylated Liposomal Acridine Orange Dye
PHC001RB	PEGylated Liposomal Rhodamine B Dye

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.