

Slide-A-Lyzer™ MINI Dialysis Unit

Doc. Part No. 2160803 Pub. No. MAN0011377 Rev. B.0



WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

Product description

The Slide-A-Lyzer™ MINI Dialysis Unit is a disposable dialysis cup made of polypropylene and regenerated cellulose with integrated, low-binding membranes for dialysis and high recovery of proteins and macromolecules. Low molecular weight contaminant removal, buffer exchange, desalting, equilibrium dialysis, micro conjugation reactions, and concentration can be performed with these devices. Sample addition and removal are easily accomplished using a standard laboratory pipette, eliminating the need for syringes. The Slide-A-Lyzer™ MINI Dialysis Unit is a convenient means for dialyzing small-volume samples (10–100 µL) of nucleic acids and proteins without undue sample loss. The Slide-A-Lyzer™ MINI Dialysis Unit can be capped (caps included) and inserted into a standard 1.5 mL microcentrifuge tube. Alternatively, as many as 25 dialysis units can be placed in a Slide-A-Lyzer™ MINI Dialysis Unit Float (Cat. No. 69588) for dialysis of multiple samples inside a large beaker.

Contents and storage

Item	Amount ^[1]	Membrane Molecular Weight Cut-Off					Storage
		2K MWCO	3.5K MWCO	7K MWCO	10K MWCO	20K MWCO	
Slide-A-Lyzer™ MINI Dialysis Unit	50 each	69580	69550	69560	69570	69590	Room temperature
	250 each	69553	69552	69562	69572	69555	
Slide-A-Lyzer™ MINI Dialysis Unit plus Float	10 each and 1 float that holds 25 units	—	69558	—	69576	—	
Slide-A-Lyzer™ MINI Dialysis Unit plus Microtubes	10 each	—	—	—	69574	—	

^[1] Sufficient caps are provided with all Slide-A-Lyzer™ MINI Dialysis Unit packages.

Guidelines for using the Slide-A-Lyzer™ MINI Dialysis Unit

- Place the unit into the float so that the bottom of the dialysis unit is in contact with the dialysate. Always ensure that the volume level of the sample is at or above the level of the dialysate. If the volume level of the sample is lower than the level of dialysate, hydrostatic pressure will force dialysate into the unit, diluting the sample.
- Although the physical capacity of the unit is 500 µL, for best results, apply a sample volume of 10–100 µL.
- To prevent contamination, do not touch the membrane with ungloved hands.
- If glycerol removal is desired, soak the Slide-A-Lyzer™ MINI Dialysis Unit in 1 L of water for 15 minutes.
- Cap the Slide-A-Lyzer™ MINI Dialysis Unit and place in a flotation device (Cat. No. 69588).
- Use a low speed setting on a stir plate so that the flotation device is not submerged.
- Typical dialysis time to obtain equilibrium is 10 minutes to 2 hours using a dialysate volume of 0.5–1 L.
- For the best volume recovery, collect the sample from the corner of the Slide-A-Lyzer™ MINI Dialysis Unit.

Additional information

Table 1 Slide-A-Lyzer™ membrane chemical compatibility.

Reagent	Compatibility ^[1]	Reagent	Compatibility ^[1]
Acetic acid, 25%	G	Hydrofluoric acid, 25%	F
Acetone	G	Hydrogen peroxide, 30%	G
Ammonium hydroxide, 1 N	F	Isopropanol	G
Ammonium hydroxide, 25%	F	Methanol, 98%	G
Amyl acetate	G	Methyl acetate	G
Benzene	N	Methyl ethyl ketone	G
Benzyl alcohol	N	Methylene chloride	G
Butanol	G	Nitric acid, 25%	N
Butyl acetate	G	Nitric acid, 65%	N
Carbon tetrachloride	G	Perchloric acid, 25%	N
Chloroform	N	Phosphoric acid, 25%	F
Dimethyl formamide	F	Potassium hydroxide (1 N)	N
Dioxane	G	Propylene glycol	G
Ethanol, 70%	G	Sodium hydroxide (1 N)	F
Ethanol, 95%	G	Sulfuric acid, 25%	F
Ethyl acetate	G	Sulfuric acid, 96%	N
Ethylene glycol	G	Tetrahydrofuran	G
Formaldehyde solution, 30%	G	Toluene	G
Formic acid, 100%	G	Trichloroacetic acid, 10%	F
Formic acid, 25%	B	Trichloroacetic acid, 25%	N
Hexane	G	Xylene	F
Hydrochloric acid, 25%	N	Trichloroethylene	N
Hydrochloric acid, 30%	N	—	

^[1] G: Good chemical resistance

F: Fair chemical resistance (pore swelling can occur)

N: Not recommended

For more information and protein dialysis, desalting, and concentration support, go to:

thermofisher.com/us/en/home/technical-resources/technical-reference-library/protein-purification-isolation-support-center/protein-dialysis-desalting-concentration-support

Related products

- Slide-A-Lyzer™ G3 Dialysis Cassettes
(thermofisher.com/us/en/home/life-science/protein-biology/protein-purification-isolation/protein-dialysis-desalting-concentration/dialysis-products/slide-a-lyzer-dialysis-cassettes)
- Slide-A-Lyzer™ Cassettes, Mini Devices, and Flasks
(thermofisher.com/us/en/home/life-science/protein-biology/protein-purification-isolation/protein-dialysis-desalting-concentration/dialysis-products)
- Pierce™ Protein Concentrators
(thermofisher.com/us/en/home/life-science/protein-biology/protein-purification-isolation/protein-dialysis-desalting-concentration/protein-concentrators)

- Protease and Phosphatase Inhibitor Cocktails and Tablets
([thermofisher.com/search/browse/category/us/en/90223020](https://www.thermofisher.com/search/browse/category/us/en/90223020))
- Pierce™ Microdialysis Plates
([thermofisher.com/us/en/home/life-science/protein-biology/protein-purification-isolation/protein-dialysis-desalting-concentration/dialysis-products/microdialysis](https://www.thermofisher.com/us/en/home/life-science/protein-biology/protein-purification-isolation/protein-dialysis-desalting-concentration/dialysis-products/microdialysis))

Product	Cat. No.	Unit size
Slide-A-Lyzer™ MINI Dialysis Unit Float	69588	Holds 25 units in a 5 × 5 array
BupH™ Phosphate Buffered Saline Packs	28372	40 packs
BupH™ Tris Buffered Saline Packs	28376	40 packs

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.



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For descriptions of symbols on product labels or product documents, go to [thermofisher.com/symbols-definition](https://www.thermofisher.com/symbols-definition).

Revision history: Pub. No. MAN0011377 B.0

Revision	Date	Description
B.0	22 March 2023	The format and content were updated.
A.0	17 October 2015	New document for the Slide-A-Lyzer™ MINI Dialysis Unit.

The information in this guide is subject to change without notice.

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