

Cell Extraction and Lysis

Dialysis cassettes



1. Apply sample with a pipette 2. Place the Slide-A-Lyzer MINI dialysis unit into the float



3. Insert the float into the beaker containing the dialysate 4. Recover sample.

Slide-A-Lyzer™ MINI dialysis units, Thermo Scientific Pierce

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Designed for dialysing 10µL to 100µL samples efficiently and easily.

- Easy to use - just like using a microcentrifuge tube: pipette sample in and out, and snap cap to close.
- Rapid dialysis – complete removal of salts and other small contaminants in less than 2hr (10min for 5µL to 10µL samples)
- Excellent sample recovery – low-binding polypropylene tube and small membrane surface ensures greater than 95% sample recovery for 10µL to 100µL samples
- 100% leak tested – special testing procedure ensures quality product, and patented design eliminates ‘wicking’ that can occur with homemade devices

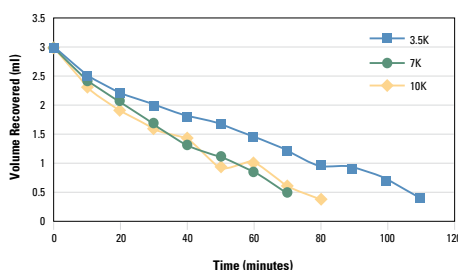
The patented design provides efficient and rapid dialysis of even 10µL samples without the recovery problems associated with homemade or other devices.

Dialysis with an individual Slide-A-Lyzer™ MINI unit can be done by placing it in a standard microcentrifuge tube containing the dialysate. Dialysis with multiple units can be done against a large volume of buffer by using the 25-position, reusable float placed in a beaker (see figures). Slide-A-Lyzer™ MINI dialysis units are available in five molecular weight cut-offs (MWCO): 2K, 3.5K, 7K, 10K and 20K.

Catalogue No	Description	Pack qty
PN69580	2,000 MWCO (blue)	50
PN69553	2,000 MWCO (blue)	250
PN69558	3,500 MWCO (pink), includes 25 unit float buoy	10
PN69550	3,500 MWCO (pink)	50
PN69552	3,500 MWCO (pink)	250
PN69560	7,000 MWCO (green)	50
PN69562	7,000 MWCO (green)	250
PN69574	10,000 MWCO (orange), includes microcentrifuge tubes	10
PN69576	10,000 MWCO (orange), includes 25 unit float buoy	10
PN69570	10,000 MWCO (orange)	50
PN69572	10,000 MWCO (orange)	250
PN69590	20,000 MWCO (purple)	50
PN69555	20,000 MWCO (purple)	250

Accessories

Catalogue No	Description	Pack qty
PN69588	Float, holds 25 MINI units	4
PN69720	Microcentrifuge tubes, 2mL	72



Time-course of sample concentration with Thermo Scientific Pierce Slide-A-Lyzer concentrating solution. 3mL samples in 3.5K, 7K and 10K Slide-A-Lyzer dialysis cassettes were concentrated six-fold in about 1 hour.



Concentrating with the Thermo Scientific Pierce Slide-A-Lyzer MINI dialysis unit. Slide-A-Lyzer concentrating solution works on even very small samples using the Slide-A-Lyzer MINI dialysis unit. Samples from 10 to 100µL are placed in the Slide-A-Lyzer MINI dialysis unit and then placed in a microcentrifuge tube that contains Slide-A-Lyzer concentrating solution at a minimum ratio of 3:1 (concentrating solution to sample).

Slide-A-Lyzer™ concentrating solution

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Decreases the volume of a sample without contamination.

- Dialysis and concentration occur in one device - avoids protein loss by using a single device
- Faster concentration - starting volume of 3mL is reduced to 0.5mL in about 75 to 80 minutes
- The process can be monitored - because both the concentrating solution and the bag are clear, the sample concentration can be easily monitored, something that is not possible with closed system centrifuge type devices

Thermo Scientific Slide-A-Lyzer™ concentrating solution effectively decreases the volume of samples by hygroscopically removing water from the sample through ordinary dialysis.

The solution contains a proprietary, high purity and high molecular weight compound that draws water across dialysis membrane to rapidly concentrate samples without the risk of contaminating the sample. Unlike typical homemade formulations, our concentrating solution does not contain any contaminants that can permeate dialysis membranes that have molecular weight cut offs less than 12,000.

Slide-A-Lyzer™ concentrating solution is ideally suited for use with Slide-A-Lyzer™ dialysis cassettes and MINI units ($\leq 10K$ MWCO membrane only). Simply place the cassette containing the sample in a small plastic bag with sufficient concentrating solution to cover the cassette (usually about three times the sample volume). Then leave the bag on the lab bench and check periodically until the sample volume has decreased to the desired level.

Catalogue No	Description	Quantity, mL
PN66530	For use with Slide-A-Lyzer MINI dialysis units	25
PN66528	For use with 0.5mL to 3mL cassettes	200
PN66529	For use with 3mL to 30mL cassettes	500