

Flow-Thru Macro DIALYZER™ (Reusable)



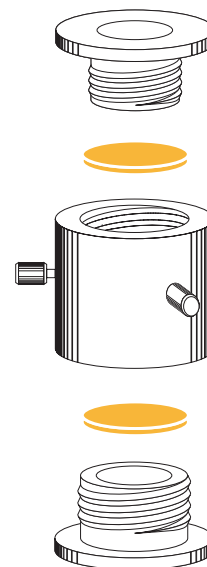
Advantages

- Rapid sample preparation
- Minimal sample loss
- Inert sample and concentration chambers (made of Teflon)

Applications

- Electro-elution
- Electro-dialysis
- Electro-concentration
- Electro-filtration
- Protein crystallization

Flow-Thru Macro DIALYZER



The Flow-Thru Macro DIALYZER is a new and unique product that is ideal for electro-elution, electro-dialysis, electro-concentration and electro-filtration of larger sample volumes (from 50 μ l to 1 ml or more) and for protein crystallization when used with ElectroPrep, see page N29. The Flow-Thru Macro DIALYZER has an inlet and an outlet providing a flow-through system, which facilitates the continuous movement of the sample. Sample collection can be monitored through the use of an on-line detector, such as a photometer, conductivity meter or any other suitable equipment readily available in the laboratory. The Flow-Thru Macro DIALYZER can also be hooked to an HPLC sample loop for concentration of biological samples.

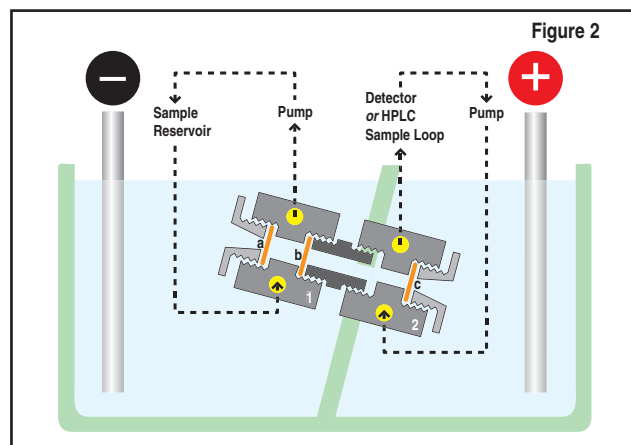
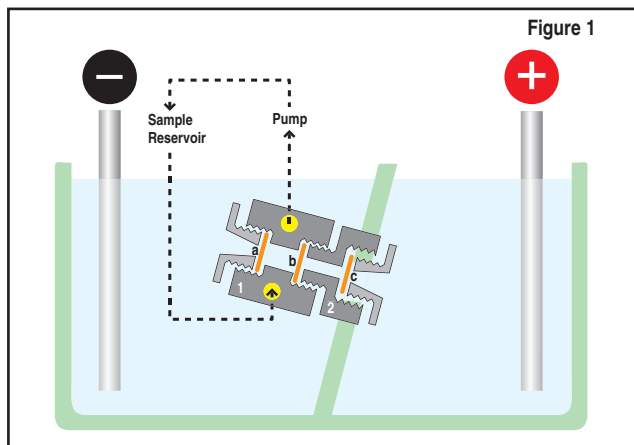
As shown in Figure 1, the sample from the sample reservoir (1) is pumped in continuous circulation through the sample chamber. The MWCO of membrane (a) is smaller than the molecular weight of the desired biomolecules. The MCWO membrane (b) is larger than the molecular weight of the desired biomolecules. The desired biomolecules will be collected in the concentration chamber (2) since membrane (c) also has a MWCO smaller than the desired biomolecules.

The setup in Figure 2 is similar. The sample from the sample reservoir (1) is pumped in continuous circulation through the sample chamber. In this instance, however, the concentration chamber (2) is also connected to a continuous on-line system with a sample detector such as an HPLC system. Therefore, the sample collected in the concentration chamber can be periodically measured and analyzed. Flow-Thru Macro DIALYZER includes chamber, two caps and two fittings.

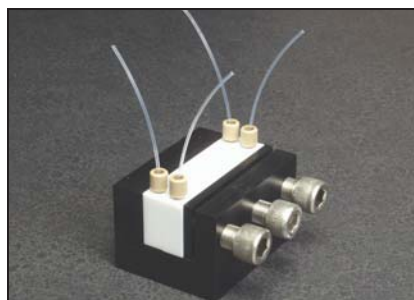
Key	
	Teflon Chamber
	Teflon Cap
	Membrane
	Union
	Port

Flow-Thru Macro DIALYZERS: Ordering Information				
Chamber Volume (μ l)	Qty. of 1	\$	Qty. of 5	\$
50	BS4 74-1204		BS4 74-1200	
100	BS4 74-1205		BS4 74-1201	
500	BS4 74-1206		BS4 74-1202	
1000	BS4 74-1207		BS4 74-1203	

For Membrane ordering information, see page N44.



Flow-Thru DIALYZER™ (Reusable)



Advantages:

- Ultra fast dialysis times are possible due to large membrane surface area
- Automation ready
- Suitable for wide sample volume range
- Inert Teflon dialysis chamber – minimal sample loss
- Suitable for constant temperature dialysis

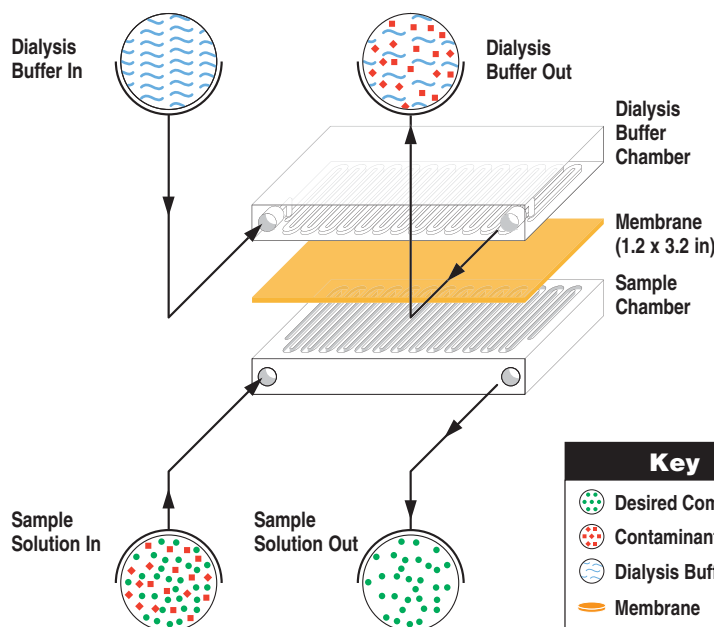
Applications:

- Dialysis
- Buffer exchange
- Salt removal
- Detergent removal
- Equilibrium dialysis
- On-line dialysis for HPLC
- On-line sample concentration
- And more...

The Flow-Thru DIALYZER is a unique system for the rapid dialysis of sample volumes from 20 μ l to 100 ml. It provides a large surface area for Flow-Thru on-line dialysis with minimal sample loss. The entire dialysis unit is made of Teflon, an inert material, and has two separate serpentine channels superimposed on each other and separated by a dialysis membrane. The length of each channel is about 700 mm. Five different chambers are available (20 μ l, 75 μ l, 150 μ l, 300 μ l and 600 μ l). Chambers of different volumes can also be superimposed on each other for specific applications.

With the Flow-Thru DIALYZER more than 90% of salts or small molecules can be dialyzed from a sample in one cycle (about 10 minutes). Cycles can be repeated automatically through the use of continuous flow systems and the entire dialysis unit can be submerged in a water bath for constant temperature dialysis.

Flow-Thru DIALYZER™



Catalog No.	\$	Description
BS4 74-1300		Flow-Thru DIALYZER of two 300 μ l Chambers with Fittings, clamping system, 10 Membranes with MWCO of 10K, pkg. of 1
BS4 74-1301		Flow-Thru DIALYZER of two 300 μ l Chambers with Fittings, clamping system, 10 Membranes with MWCO of 10K, Pump Drive with Two Pump Heads and Tubings, pkg. of 1
BS4 74-1400		Flow-Thru DIALYZER Chamber 20 μ l Teflon, pkg. of 2
BS4 74-1401		Flow-Thru DIALYZER Chamber 75 μ l Teflon, pkg. of 2
BS4 74-1402		Flow-Thru DIALYZER Chamber 150 μ l Teflon, pkg. of 2
BS4 74-1403		Flow-Thru DIALYZER Chamber 300 μ l Teflon, pkg. of 2
BS4 74-1404		Flow-Thru DIALYZER Chamber 600 μ l Teflon, pkg. of 2

Cellulose Acetate Membranes for Flow-Thru DIALYZER

BS4 74-1508		Membranes MWCO 100 Daltons, pkg. of 10
BS4 74-1500		Membranes MWCO 500 Daltons, pkg. of 10
BS4 74-1501		Membranes MWCO 1K Daltons, pkg. of 10
BS4 74-1502		Membranes MWCO 2K Daltons, pkg. of 10
BS4 74-1503		Membranes MWCO 5K Daltons, pkg. of 10
BS4 74-1504		Membranes MWCO 10K Daltons, pkg. of 10
BS4 74-1505		Membranes MWCO 25K Daltons, pkg. of 10
BS4 74-1506		Membranes MWCO 50K Daltons, pkg. of 10
BS4 74-1507		Membranes MWCO 100K Daltons, pkg. of 10

Regenerated Cellulose Membranes for Flow-Thru DIALYZER

BS4 74-1510		Membranes MWCO 1K Daltons, pkg. of 10
BS4 74-1511		Membranes MWCO 2K Daltons, pkg. of 10
BS4 74-1512		Membranes MWCO 5K Daltons, pkg. of 10
BS4 74-1513		Membranes MWCO 10K Daltons, pkg. of 10
BS4 74-1514		Membranes MWCO 25K Daltons, pkg. of 10
BS4 74-1515		Membranes MWCO 50K Daltons, pkg. of 10

Polycarbonate Membranes for Flow-Thru DIALYZER

BS4 74-1520		Membranes 0.01 μ m pore size, pkg. of 10
BS4 74-1521		Membranes 0.05 μ m pore size, pkg. of 10
BS4 74-1522		Membranes 0.60 μ m pore size, pkg. of 10