

# Fast Micro Equilibrium Dialyzer

(25 to 1,500  $\mu$ l Sample Volume)



a brand of Harvard Bioscience, Inc.

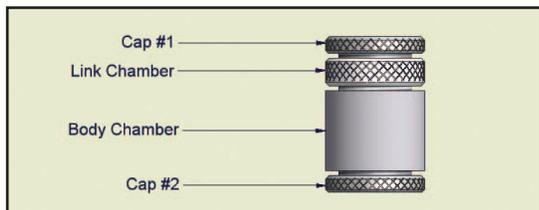
## Quick Start Guide



### Description

The Fast Micro Equilibrium Dialyzer is a unique equilibrium dialysis chamber ideally suited for binding assays. This dialyzer uses membranes and chambers with high surface area to sample volume ratios. The large membrane surface to volume ratio allows for decreased dialysis times (faster equilibrium). The inert PTFE material allows for maximum sample retention, and allows the dialyzer unit to be autoclaved for reuse.

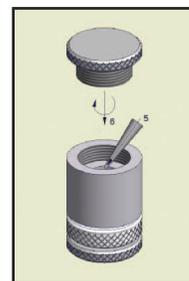
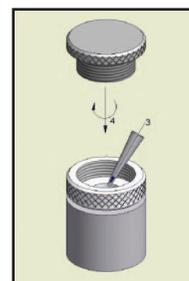
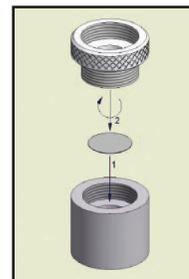
Each dialyzer includes a body chamber and link chamber of equal volume, and two solid caps. A membrane (purchased separately) is placed between the link chamber and the body chamber prior to use.



In binding studies, one chamber contains a macromolecule while the other holds the ligand. The macromolecule is too large to cross the membrane and remains in its chamber. The ligand freely passes through the membrane to bind with the protein. Once complexed, it is too large and is retained by the membrane. When equilibrium has been reached, the chambers are opened at each end to extract the samples for analysis, e.g binding affinity. The dialyzer assembly can be rotated along the membrane axis from time to time and can also be placed in a thermostat for temperature-controlled dialysis.

### Instructions

1. Place membrane between the two chambers.
2. Seal membrane between chambers by tightly screwing together.
3. Place sample into Link Chamber.
4. Seal chamber by tightening Cap #1.
5. Invert and place buffer into body chamber.
6. Seal chamber by tightening Cap #2.
7. Gently agitate until equilibrium is reached.
8. Once equilibrium is reached, unscrew cap to retrieve sample.



*Note: Wash dialyzer parts before each use.*

## Ordering Information

Fast Micro Equilibrium Dialyzers and Membranes							
Chamber Volume	25 µl	50 µl	100 µl	250 µl	500 µl	1,000 µl	1,500 µl
<b>Fast Micro Equilibrium Dialyzers</b>							
Qty. of 1	7416-251D	7416-501D	7416-1001D	7416-2501D	7416-5001D	7416-10001D	7416-15001D
Qty. of 5	7416-255D	7416-505D	7416-1005D	7416-2505D	7416-5005D	7416-10005D	7416-15005D
<b>Additional Link Chambers</b>							
Qty. of 1	7416-251L	7416-501L	7416-1001L	7416-2501L	7416-5001L	7416-10001L	7416-15001L
Qty. of 5	7416-255L	7416-505L	7416-1005L	7416-2505L	7416-5005L	7416-10005L	7416-15005L
<b>Additional End Caps, Solid</b>							
Qty. of 2	74-1108			74-1099			

Membranes Packages of 25		
Chamber Volume	25 to 100 µl	250 to 1,500 µl
<b>Regenerated Cellulose Membranes</b>		
1 kDa	7416-RC1K	7415-RC
2 kDa	7416-RC2K	7415-RC
3.5 kDa	7416-RC3.5K	7415-RC3.5K
10 kDa	7416-RC10K	7415-RC
25 kDa	7416-RC25K	7415-RC
50 kDa	7416-RC50K	7415-RC
<b>Cellulose Acetate Membranes</b>		
500 Da	7416-CA500	7415-CA500
1 kDa	7416-CA1K	7415-CA1K
2 kDa	7416-CA2K	7415-CA2K
5 kDa	7416-CA5K	7415-CA5K
10 kDa	7416-CA10K	7415-CA10K
25 kDa	7416-CA25K	7415-CA25K
50 kDa	7416-CA50K	7415-CA50K
100 kDa	7416-CA100K	7415-CA100K
300 kDa	7416-CA300K	7415-CA300K
<b>Polycarbonate Membranes</b>		
0.01 µm	7416-PC01	7415-PC01
0.05 µm	7416-PC05	7415-PC05
0.10 µm	7416-PC10	7415-PC10
0.60 µm	7416-PC60	7415-PC60

*Notes: Membranes are supplied either as dry or in 0.05% sodium azide solution. They are ready to use after rinsing with deionized water and buffer.*

*Regenerated Cellulose membranes are more stable in organic solvents, but the MWCO range is not as sharply defined as that of Cellulose Acetate membranes.*

*Cellulose Acetate membranes have a sharp MWCO range. They are intended only for aqueous solutions, and the presence of an organic solvent is not recommended.*

*Polycarbonate membranes are more stable in organic solvents. They are available in four highly controlled pore sizes for a well-defined MWCO range.*