

RapidDialyzer™: Unique Advantages

Micro-volume Dialysis:

Samples from 1 μ l to 20 μ l , near 100% sample recovery.

Rapid Dialysis:

Diffusion length is only 0.5mm regardless of sample volume

Clear Volumetric View:

Allows quick and easy check for sample phase or/and volume changes during dialysis

Dialysis Membrane

Sample Loading Chamber

Dialysis Chamber: the depth of the chamber is only 0.5mm, thus, providing rapid dialysis for the dialysate

Plastic Frame

Cross Sectional View



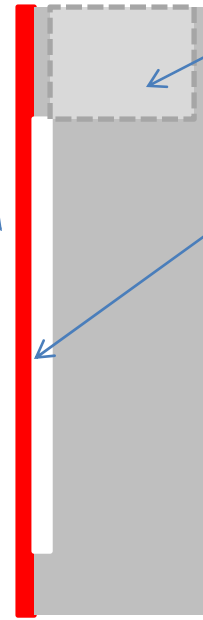
RapidDialyzer™: Design

Dialysis Membrane
Securely sealed to the plastic
frame with adhesive



Sample Loading Chamber:
load the sample to be
dialyzed here

Front View



Cross Sectional View

Sample Loading Chamber

Dialysis Chamber: the depth
of the chamber is only
0.5mm, thus, providing rapid
dialysis for the dialysate

Plastic Frame

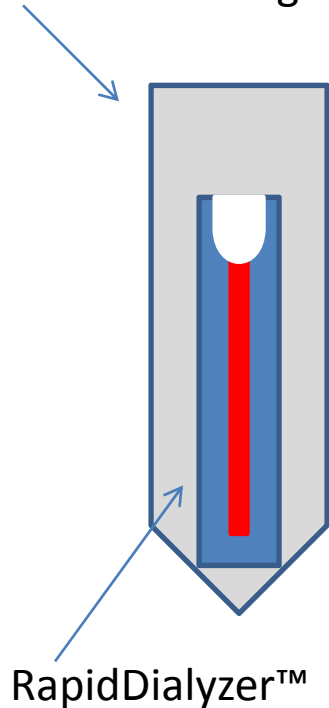


The 1 μ l to 20 μ l RapidDialyzer™ is a disposable DIALYZER for the dialysis of small samples. The dialysis is carried out in a microcentrifuge tube. Rapid dialysis is achieved by large membrane area (48 mm² surface area) and short diffusion length (0.5mm). Sample recovery is almost 100% with a quick centrifugation step.

RapidDialyzer™: How To Use

RapidDialyzer™: single use, samples from 1-20 μ l, available MWCO: 3.5k, 8k, 14k, 25k

Microcentrifuge Tube

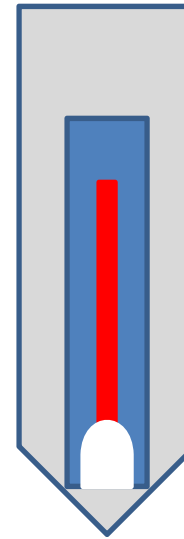


Sample Loading

Step 1: pipette 1ml of dialysis buffer into the centrifuge tube, then place the RapidDialyzer™ into the centrifuge tube.

Step 2: pipette up to 20 μ l of sample into the sample chamber.

Step 3: centrifuge the tube at ~5,000rpm for 30sec.



Sample Recovery

Step1: after dialysis, place the RapidDialyzer™ inverted into a new tube and centrifuge the tube at ~5,000rpm for 30sec.

Step2: remove the RapidDialyzer™, recover the sample at the bottom of the centrifuge tube.



RapidDialyzer™: Advantages and Applications

Advantages:

- Micro-volume dialysis
- Rapid dialysis/purification
- Clear volumetric view
- Economical, easy to use
- Leak-proof, high sample recovery
- Low protein binding

Applications:

- Buffer Exchange
- Sample Concentration
- Detergent Removal
- Sample Purification
- Equilibrium Dialysis
- Radiolabel or PCR-primer Removal