Системы электродиализа с электропрептацией

Описание

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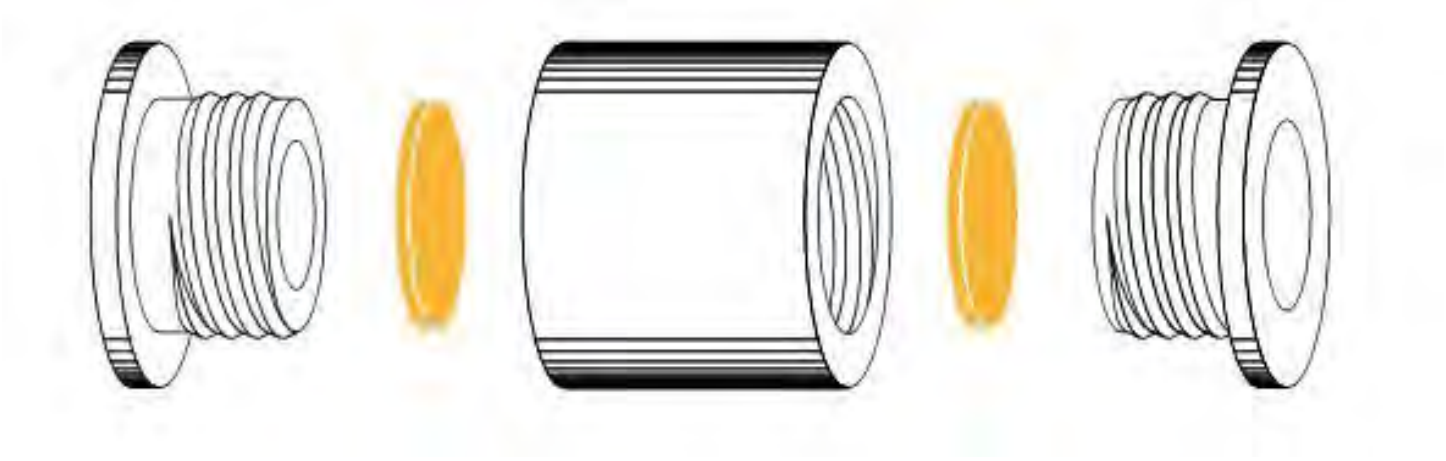
Membranes for ElectroPrep Secondary Link Chambers

The Membranes for ElectroPrep Secondary Link Chambers are available in regenerated cellulose and celluose acetate membranes in MWCO's ranging from 500 Da to 300 kDa, and in polycarbonate with pore sizes from 0.01 to 0.60 µm pore size. Membranes are 7/16" in diameter and precut to fit ElectroPrep secondary link chamber sizes.

Item No.	Description
7424-RC1K	Regenerated Cellulose Membrane, 1 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-RC2K	Regenerated Cellulose Membrane, 2 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-RC10K	Regenerated Cellulose Membrane, 10 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-RC25K	Regenerated Cellulose Membrane, 25 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-RC50K	Regenerated Cellulose Membrane, 50 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA500	Cellulose Acetate Membrane, 500 Da MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA1K	Cellulose Acetate Membrane, 1 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA2K	Cellulose Acetate Membrane, 2 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA5K	Cellulose Acetate Membrane, 5 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25

Item No.	Description
7424-CA10K	Cellulose Acetate Membrane, 10 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA25K	Cellulose Acetate Membrane, 25 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA50K	Cellulose Acetate Membrane, 50 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA100K	Cellulose Acetate Membrane, 100 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-CA300K	Cellulose Acetate Membrane, 300 kDa MWCO, 10 to 200 µl Chamber Volumes, Qty. of 25
7424-PC01	Polycarbonate Membrane, 0.01 µm Pore Size, 10 to 200 µl, Qty. of 25
7424-PC05	Polycarbonate Membrane, 0.05 µm Pore Size, 10 to 200 µl, Qty. of 25
7424-PC10	Polycarbonate Membrane, 0.10 µm Pore Size, 10 to 200 µl, Qty. of 25
7424-PC60	Polycarbonate Membrane, 0.60 µm Pore Size, 10 to 200 µl, Qty. of 25



DETAILS

Membranes for ElectroPrep Secondary Link Chambers are available in three membrane materials to suit your application: regenerated cellulose, cellulose acetate, and polycarbonate. Membranes are 7/16" in diameter and precut to fit ElectroPrep secondary link chamber sizes.

Regenerated Cellulose: Constructed of a very stable cellulose, regenerated cellulose membranes are resistant to solvents. This membrane is inert to proteins providing maximum sample retention. These membranes are available in MWCO's from 1 to 50 kDa with pore sizes that are less defined than the cellulose acetate membranes.

Cellulose Acetate: Cellulose Acetate membranes are made of rayon and are ideal for use with aqueous solutions. They are not meant for use with any organic solvents. These membranes are inert to proteins providing high sample retention. These membranes are available in MWCO's from 500 Da to 300 kDa and have a more defined pore size than the regenerated cellulose membranes.

Polycarbonate Membrane: Polycarbonate membranes are chemically resistant and are ideal for use with acids and organic solvents. These membranes are available with sharply defined pore sizes ranging from 0.01 µm to 0.60 µm. Harvard Apparatus ships membranes dry to increase their shelf life. Membranes must be rehydrated before use.

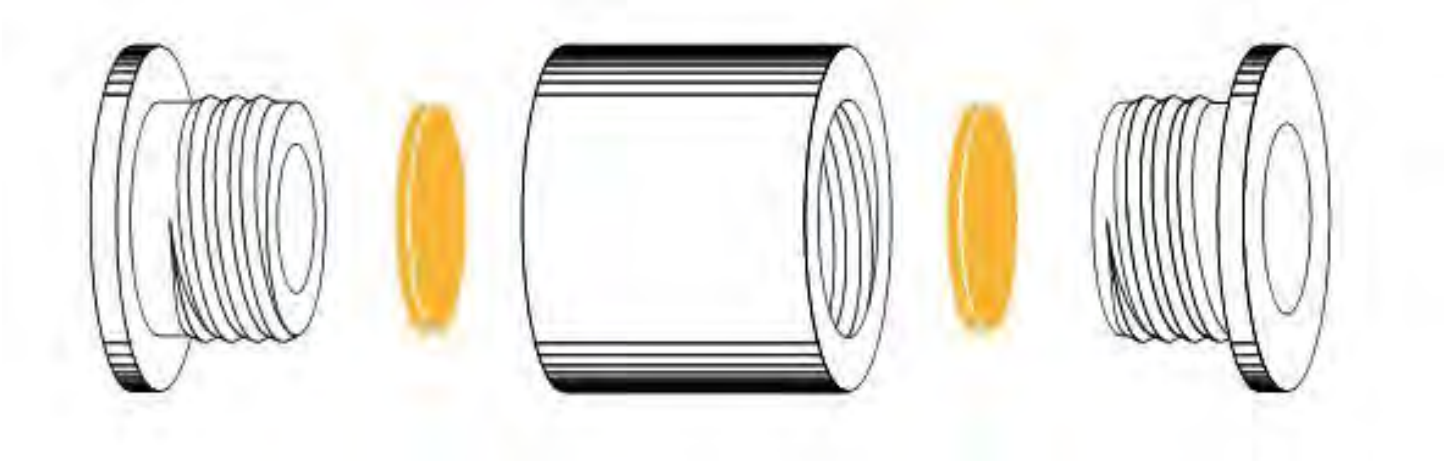
Membranes for ElectroPrep Primary Link Chambers

The Membranes for ElectroPrep Primary Link Chambers are available in regenerated cellulose and celluose acetate membranes in MWCO's ranging from 500 Da to 300 kDa, and in polycarbonate with pore sizes from 0.01 to 0.60 µm pore size. Membranes are 11/16" in diameter and precut to fit ElectroPrep primary link chambers.

Item No.	Description
7416-RC1K	Regenerated Cellulose Membranes, 1 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-RC1K	Regenerated Cellulose Membrane, 1 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-RC2K	Regenerated Cellulose Membranes, 2 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-RC2K	Regenerated Cellulose Membrane, 2 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7425-RC3.5K	Regenerated Cellulose Membrane, 3.5 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-RC3.5K	Regenerated Cellulose Membranes, 3.5 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-RC10K	Regenerated Cellulose Membrane, 10 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-RC25K	Regenerated Cellulose Membranes, 25 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-RC25K	Regenerated Cellulose Membrane, 25 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25

Item No.	Description
7416-RC50K	Regenerated Cellulose Membranes, 50 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-RC50K	Regenerated Cellulose Membrane, 50 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA1K	Cellulose Acetate Membranes,1 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-CA1K	Cellulose Acetate Membrane, 1 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA2K	Cellulose Acetate Membranes, 2 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-CA2K	Cellulose Acetate Membrane, 2 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA5K	Cellulose Acetate Membranes, 5 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-CA5K	Cellulose Acetate Membrane, 5 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA10K	Cellulose Acetate Membranes,10 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-CA10K	Cellulose Acetate Membrane, 10 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA25K	Cellulose Acetate Membranes, 25 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-CA25K	Cellulose Acetate Membrane, 25 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA50K	Cellulose Acetate Membranes, 50 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25

Item No.	Description
7425-CA50K	Cellulose Acetate Membrane, 50 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA100K	Cellulose Acetate Membranes,100 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-CA100K	Cellulose Acetate Membrane, 100 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-CA300K	Cellulose Acetate Membranes, 300 kDa MWCO, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-CA300K	Cellulose Acetate Membrane, 300 kDa MWCO, 500 to 1500 µl Chamber Volumes, Qty. of 25
7416-PC01	Polycarbonate Membranes, 0.01 µm Pore Size, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-PC01	Polycarbonate Membrane, 0.01 µm Pore Size, 500 to 1500 µl, Qty. of 25
7416-PC05	Polycarbonate Membranes, 0.05 µm Pore Size, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-PC05	Polycarbonate Membrane, 0.05 µm Pore Size, 500 to 1500 µl, Qty. of 25
7416-PC10	Polycarbonate Membranes, 0.10 µm Pore Size, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-PC10	Polycarbonate Membrane, 0.10 µm Pore Size, 500 to 1500 µl, Qty. of 25
7416-PC60	Polycarbonate Membranes, 0.60 µm Pore Size, 25 to 250 µl Chamber Volumes, Qty. of 25
7425-PC60	Polycarbonate Membrane, 0.60 µm Pore Size, 500 to 1500 µl, Qty. of 25



DETAILS

The Membranes for ElectroPrep Primary Link Chambers are available in regenerated cellulose and celluose acetate membranes in MWCO's ranging from 500 Da to 300 kDa, and in polycarbonate with pore sizes from 0.01 to 0.60 µm pore size. Membranes are 11/16" in diameter and precut to fit ElectroPrep primary link chambers.

Regenerated Cellulose: Constructed of a very stable cellulose, regenerated cellulose membranes are resistant to solvents. This membrane is inert to proteins providing maximum sample retention. These membranes are available in MWCO's from 1 to 50 kDa with pore sizes that are less defined than the cellulose acetate membranes.

Cellulose Acetate: Cellulose Acetate membranes are made of rayon and are ideal for use with aqueous solutions. They are not meant for use with any organic solvents. These membranes are inert to proteins providing high sample retention. These membranes are available in MWCO's from 500 Da to 300 kDa and have a more defined pore size than the regenerated cellulose membranes.

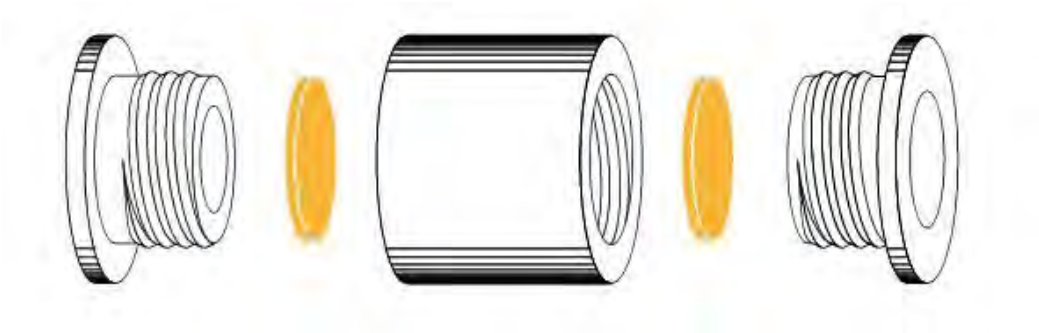
Polycarbonate Membrane: Polycarbonate membranes are chemically resistant and are ideal for use with acids and organic solvents. These membranes are available with sharply defined pore sizes ranging from 0.01 µm to 0.60 µm. Harvard Apparatus ships membranes dry to increase their shelf life. Membranes must be rehydrated before use.

Membranes for ElectroPrep Dialysis Chambers

The Membranes for ElectroPrep Dialysis Chambers are available in regenerated cellulose and celluose acetate membranes in MWCO's ranging from 500 Da to 300 kDa, and in polycarbonate with pore sizes from 0.01 to 0.60 µm pore size. Membranes are 15/16" in diameter and precut to fit ElectroPrep dialysis chamber sizes.

Item No.	Description
7410-RC1K	Regenerated Cellulose Membranes, 1 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-RC2K	Regenerated Cellulose Membranes, 2 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-RC3.5K	Regenerated Cellulose Membranes, 3.5 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-RC10K	Regenerated Cellulose Membranes, 10 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-RC25K	Regenerated Cellulose Membranes, 25 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-RC50K	Regenerated Cellulose Membranes, 50 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA500	Cellulose Acetate Membranes, 500 Da MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA1K	Cellulose Acetate Membranes,1 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA2K	Cellulose Acetate Membranes, 2 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA5K	Cellulose Acetate Membranes, 5 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA10K	Cellulose Acetate Membranes,10 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA25K	Cellulose Acetate Membranes, 25 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA50K	Cellulose Acetate Membranes, 50 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA100K	Cellulose Acetate Membranes,100 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-CA300K	Cellulose Acetate Membranes, 300 kDa MWCO, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-PC01	Polycarbonate Membranes, 0.01 µm Pore Size, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-PC05	Polycarbonate Membranes, 0.05 µm Pore Size, 50 to 1500 µl Chamber Volumes, Qty. of 25

Item No.	Description
7410-PC10	Polycarbonate Membranes, 0.10 µm Pore Size, 50 to 1500 µl Chamber Volumes, Qty. of 25
7410-PC60	Polycarbonate Membranes, 0.60 µm Pore Size, 50 to 1500 µl Chamber Volumes, Qty. of 25



DETAILS

Membranes for ElectroPrep Dialysis Chambers are available in three membrane materials to suit your application: regenerated cellulose, cellulose acetate, and polycarbonate. Membranes are 15/16" in diameter and precut to fit ElectroPrep dialysis chamber sizes.

Regenerated Cellulose: Constructed of a very stable cellulose, regenerated cellulose membranes are resistant to solvents. This membrane is inert to proteins providing maximum sample retention. These membranes are available in MWCO's from 1 to 50 kDa with pore sizes that are less defined than the cellulose acetate membranes.

Cellulose Acetate: Cellulose Acetate membranes are made of rayon and are ideal for use with aqueous solutions. They are not meant for use with any organic solvents. These membranes are inert to proteins providing high sample retention. These membranes are available in MWCO's from 500 Da to 300 kDa and have a more defined pore size than the regenerated cellulose membranes.

Polycarbonate Membrane: Polycarbonate membranes are chemically resistant and are ideal for use with acids and organic solvents. These membranes are available with sharply defined pore sizes ranging from 0.01 µm to 0.60 µm.

Harvard Apparatus ships membranes dry to increase their shelf life. Membranes must be rehydrated before use.

SPECIFICATIONS

Specifications	7410-RC1K	7410-RC2K	7410-RC10K	7410-RC25K	7410-RC50K	7410-CA500	7410-CA1K	7410-CA2K	7410-CA5K	7410-CA10K	7410-CA25K	7410-CA50K	7410-CA100K	7410-CA300K	7410-PC01
MWCO	1,000	2,000	10,000	25,000	50,000	500	1,000	2,000	5000	10,000	25,000	50,000	100,000	300,000	
MWCO UOM	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	Dalton	

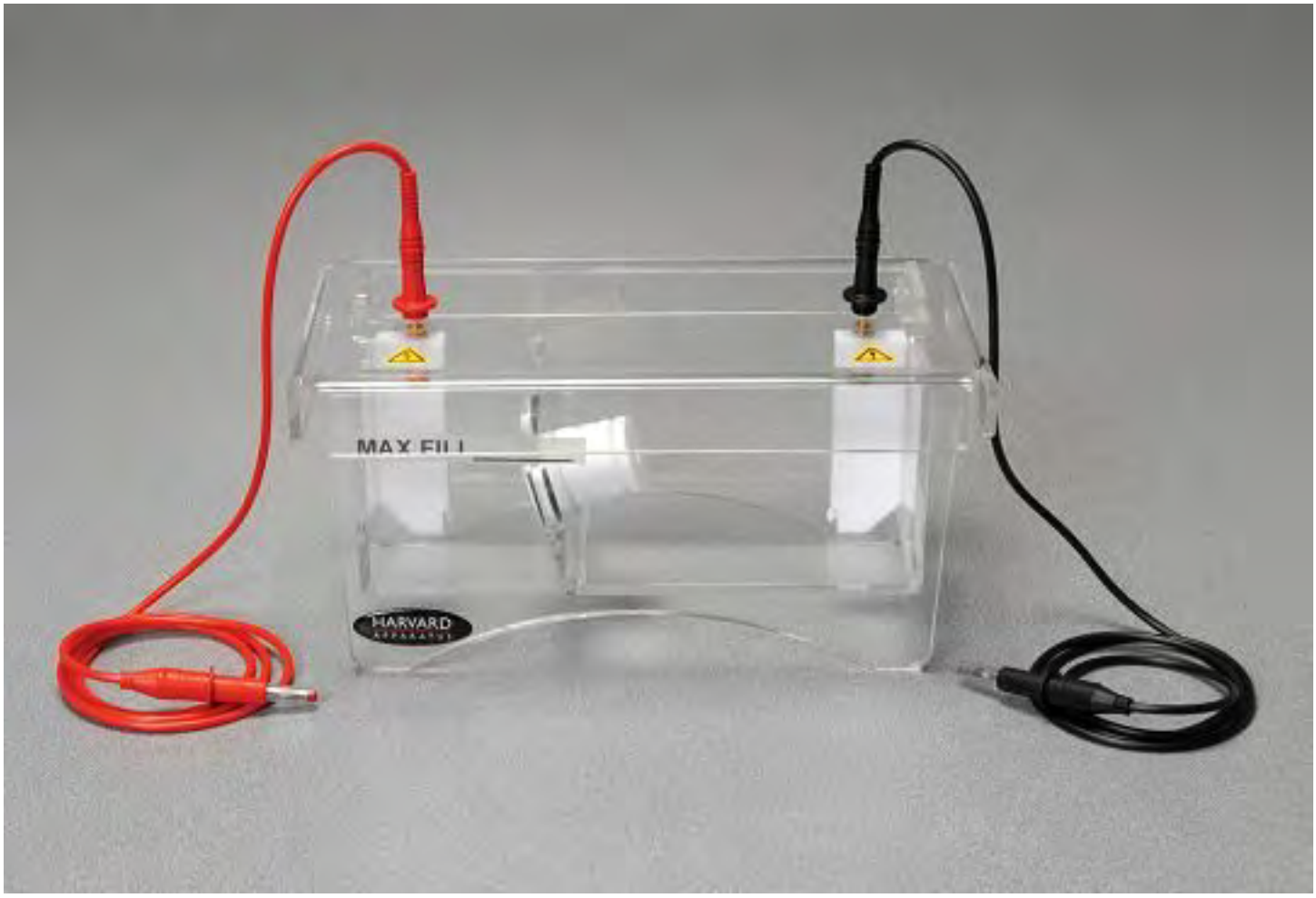
ElectroPrep Electrodialysis System

The QuikPrep® ElectroPrep Electrodialysis System is an extremely versatile patented sample preparation technology that is capable of separating samples by both size and charge. It provides faster dialysis times due to movement of charged molecules in an electric field during dialysis, thus combining electrophoresis with dialysis. With a run-time of 5 to 10 minutes, ElectroPrep provides speed and convenience, even at the very low currents (5 to 10 mA) used with this system.

It is ideal for the rapid purification of proteins, nucleic acids, carbohydrates and other biomolecules. Membranes of different MWCO (molecular weight cut off), from 100 to 300,000 Daltons, can be used for selective buffer exchange, dialysis, filtration, concentration, fractionation and elution.

Item No.	Description
74-1197	ElectroPrep Connector Cables, 4 mm, red and black (1 each)
7411-502D	Dialysis Chamber for ElectroPrep, 50 µl, Qty. of 2
7411-1002D	Dialysis Chamber for ElectroPrep, 100 µl, Qty. of 2
7411-2502D	Dialysis Chamber for ElectroPrep, 250 µl, Qty. of 2
7411-5002D	Dialysis Chamber for ElectroPrep, 500 µl, Qty. of 2
7411-10002D	Dialysis Chamber for ElectroPrep, 1000 µl, Qty. of 2
7411-15002D	Dialysis Chamber for ElectroPrep, 1500 µl, Qty. of 2
7411-502L	Link Chamber for ElectroPrep, 50 µl, Qty. of 2
7411-1002L	Link Chamber for ElectroPrep, 100 µl, Qty. of 2
7411-2502L	Link Chamber for ElectroPrep, 250 µl, Qty. of 2
7411-5002L	Link Chamber for ElectroPrep, 500 µl, Qty. of 2

Item No.	Description
7411-10002L	Link Chamber for ElectroPrep, 1000 µl, Qty. of 2
7411-15002L	Link Chamber for ElectroPrep, 1500 µl, Qty. of 2
74-1194	Union (Connector), (1) 600 µl and (1) 3500 µl, to join ElectroPrep Dialysis Chambers



DETAILS

The QuikPrep® ElectroPrep Electrodialysis System is an extremely versatile patented sample preparation technology that is capable of separating samples by both size and charge. It provides faster dialysis times due to movement of charged molecules in an electric field during dialysis, thus combining electrophoresis with dialysis. With a run-time of 5 to 10 minutes, ElectroPrep provides speed and convenience, even at the very low currents (5 to 10 mA) used with this system.

It is ideal for the rapid purification of proteins, nucleic acids, carbohydrates and other biomolecules. Membranes of different MWCO (molecular weight cut off), from 100 to 300,000 Daltons, can be used for selective buffer exchange, dialysis, filtration, concentration, fractionation and elution.

The ElectroPrep Tank (74-1196) is supplied with a tank, lid and connectors, a replacement gasket. Power supply, power supply adapters, chambers, links, unions and membranes must be purchased separately.

Features

- Faster dialysis times due to movement of charged molecules in the electric field
- Reusable
- Available for most sample sizes, large or small
- Membranes available with MWCO's to suit almost any application
- Easy to use
- Leak proof
- Autoclaveable
- Low protein binding
- High sample recovery
- Chambers made of autoclaveable, insert PTFE

Applications

- Electro-elution from gels and solutions
- Electro-dialysis (with an average buffer exchange time of 5 to 10 minutes)
- Electroconcentration
- Selective electrofiltration
- Size fractionation
- Primer removal
- Salt removal
- Detergent removal
- Dye terminator removal

Assembly and Use

A functional ElectroPrep System consists of the ElectroPrep Tank, power supply, and one or more Dialyzer Units.

The ElectroPrep System uses at least one Dialyzer Unit to perform a sample electrodialysis. A basic Dialyzer Unit is comprised of a dialyzer chamber, dialysis membranes at one or both ends of the chamber and two end caps.

Dialyzer Units can be configured in a number of more complex ways to perform different applicationsusing a combination of components:

- **Dialysis Chamber**: the major receptacles for either samples or dialyzed materials. Includes one main chamber with two open ports and two open end caps. The sample chambers are made of PTFE, an inert material especially suited for high sample recovery and are available in a range of 50 µl to 1,500 µl volumes. All Dialysis Chambers use 15/16" diameter membranes.
  - Two end caps may be used, one at the end of each chamber.

- **Union**: joins two dialysis chambers together.
  - Without membranes to make a larger volume chamber.
  - With dialysis membranes of appropriate MWCOs for serial dialysis. (The junction between a Dialysis Chamber and a Union accommodates the same size 15/16" diameter membranes as the junction between a Dialysis Chamber and its end cap).

- **Link Chambers**: may be used for concentration of dialyzed samples or for size fractionation of samples using membranes of different MWCOs. As with Unions, Link Chambers may also be connected to Chambers without membranes to make a larger volume chamber. Each Link Chamber comes with one open end cap. Primary and Secondary Link Chambers accept different size membranes at their junctions on either side facing the Dialysis Chamber or the Link Chamber cap.
  - **Primary Link Chamber**: can be joined directly to a dialysis chamber on one end and joined to a cap or a secondary link chamber on the other end. Primary link chambers are available in a range of 50 µlto 1,500 µl volumes. The junction between a Dialysis Chamber and a Primary Link Chamber accepts a 15/16" diameter membrane and the junction between a Primary link chamber and a Secondary Link Chamber or cap accepts an 11/16" diameter membrane.
  - **Secondary Link Chamber**: can be joined to a primary link chamber on one end and can be joined to a cap on the other end. Secondary link chambers are available in either 50 µl or 100 µl volumes. The junction between a Primary and Secondary Link Chambers accepts an 11/16" size membrane and the junction between a Secondar yLink Chamber and its cap accepts a 7/16" diameter membrane.

- **Dialysis Membranes** are added at one or both ends or between Dialysis Chamber and/or Link Chambers and Unions. Membrane MWCOs, ranging from 500 to 300,000 Daltons, may be used in combination with different Dialysis and Link Chambers for selective elution, filtration, dialysis, fractionation and concentration of complex samples. Dialysis Membranes are available in three sizes: 7/16", 11/16", and 15/16" diameters. It is important to choose the correct membrane diameter. Please contact Technical Support if you need assistance.

How to Select Your Chamber and Membrane Configuration

1. Decide upon your applicatione.g., electrodialysis, electroelution, electrofiltration, electroconcentration, electroseparation.

2. Select a Dialysis Chamber able to hold the desired sample volume (50 to 1500 µl.) Note that two Dialysis Chambers can be joined to a Union (with or without membranes added between the Union and Chambers) to increase sample volume (up to 600 or 3500 µl).

3. Choose Dialysis Membranes of suitable size, type and MWCO depending on the application being done and the molecular weight of the biological molecule of interest.

- **Membrane Type:** Take into account the membrane's suitability for use in aqueous or organic solvents.
  - For organic solvents, use either regenerated cellulose or polycarbonate.
  - For aqueous solutions, use cellulose acetate.
- **Membrane size**: Take care to select the membrane diameters you need for each component in your configuration.

4. Assemble Dialysis Unit

- With one Dialysis Chamber, two membranes and two Open End Caps for desalting or buffer exchange. (Configuration #1)
- With two Dialysis Chambers of equal volume, three membranes, a Union, and two Open End Caps for electroseparation and electroelution. (Configuration #2)
- With Dialysis Chamber, three membranes, a smaller volume Link Chamber, and two Open End Caps for electroconcentration or electrofiltration. (Configuration #3)
- With Dialysis Chambers, six membranes of different MWCO, a Union, and multiple Link Chambers forelectrofractionation. (Configuration #4)

Note: Configurations 1 to 4 are just a few examples of ElectroPrep Unit assembly. Additional configurations for electrofractionation are possible using additional combinations of Dialysis Chambers, Unions, Primary Link Chambers, and Secondary Link Chambers.

Example Configurations

SPECIFICATIONS

Dialysis Unit Components	Chamber Size	Membrane Diameter to Order
Dialysis Chamber	50 to 1500 µl	15/16"
Primary Link Chamber	50 to 1500 µl	11/16"
Secondary Link Chamber	50 to 100 µl	7/16"

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