

DIALYZERS

DIALYZER™



Advantages:

- Easy to use
- Reusable
- Autoclavable
- Available for wide range of sample sizes - 10µl to 5ml
- High sample recovery
- Rapid dialysis/purification
- Made of Teflon - totally inert
- Low protein binding
- Membranes available with MWCO's to suit almost any application
- Leak-proof

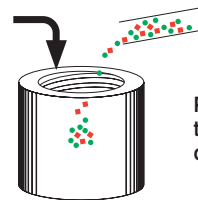
Applications:

- Purification of biomolecules
- Exchange of buffers
- Removal of detergents
- Sample concentration
- HPLC, HPCE
- Removal of excess radiolabel
- Post-PCR clean-up
- GC, GC-MS, NMR

The DIALYZER is a simple device for dialysis of biological samples. A broad range of DIALYZER sizes are available to accommodate sample volumes ranging from as little as 10µl up to 5ml. Pre-cut dialysis membranes are available for the DIALYZER with Molecular Weight Cut-Off ranges from 100 to 300,000 Daltons. The entire unit is constructed of Teflon, a virtually unreactive material, which will not interfere with your valuable samples. Once assembled a Teflon-Teflon seal ensures that the DIALYZER is 100% leak-proof. The DIALYZER is ideal for the simple dialysis of salts, for the exchange of buffers, and for the concentration of samples.

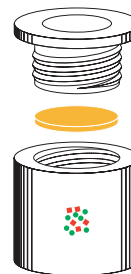
How to Use: DIALYZERS™

Step 1



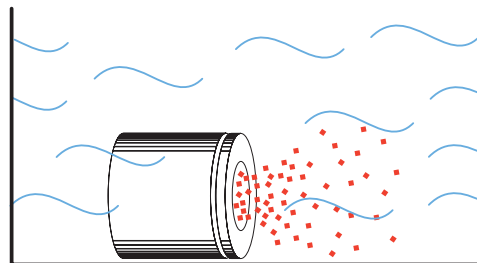
Place the sample in the sample chamber of the DIALYZER

Step 2



Choose a suitable membrane and clamp into place with the DIALYZER cap

Step 3



Place the entire unit into a large beaker of dialysis buffer

DIALYZERS: Ordering Information

Chamber Volume (µl)	Qty. of 1	\$	Qty. of 5	\$
10	SSB 0010.1	88.00	SSB 0010	355.00
20	SSB 0020.1	88.00	SSB 0020	355.00
50	SSB 0050.1	88.00	SSB 0050	355.00
100	SSB 0100.1	88.00	SSB 0100	355.00
200	SSB 0200.1	88.00	SSB 0200	355.00
500	SSB 0500.1	88.00	SSB 0500	355.00
1000	SSB 1000.1	88.00	SSB 1000	355.00
1500	SSB 1500.1	88.00	SSB 1500	355.00
3000	SSB 3000.1	88.00	SSB 3000	355.00
5000	SSB 5000.1	88.00	SSB 5000	355.00

Key

- Desired Component
- Contaminants
- Dialysis Buffer
- Membrane

For Membrane ordering information, see pages 402-404

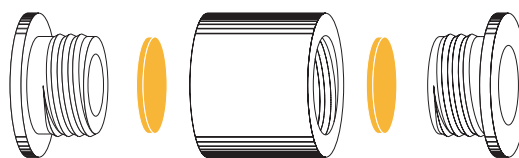
The membrane ordering information is color coded to assist you in selecting the appropriate membrane:

Pink shaded membranes are for products with sample sizes up to 200µl

Purple shaded membranes are for products with sample sizes ranging from 250µl to 1,500µl

Green shaded membranes are for products with sample sizes ranging from 3,000µl to 5,000µl

Fast DIALYZER™



The Fast DIALYZER boasts all the features of the original DIALYZER plus an additional dialysis port. The Fast DIALYZER thus has two dialysis membranes, one on either side of the sample chamber. The increased membrane surface area results in greater sample exposure and an enhanced rate of dialysis.

The Fast DIALYZER is also suited for a wide spectrum of additional applications including:

- Electro-Elution
- Elution of Proteins and Nucleic Acids from Gels
- Electro-Concentration
- Electro-Dialysis, and
- Equilibrium Dialysis

Advantages:

- Twice as quick
- 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
- Rapid dialysis/purification
- Made of Teflon - totally inert

Applications:

- Exchange of buffers
- Removal of detergents
- Concentration of samples
- HPLC, HPCE
- Immunoblotting*
- Purification of proteins, DNA and RNA
- Removal of excess radiolabel
- Post-PCR clean-up
- GC, GC-MS, NMR
- Removal of CsCl, agarose, pyridoxal-5-phosphate*
- Removal of silicates after chromatography*
- Complex carbohydrate purification*
- Equilibrium dialysis
- Protein binding assays

* When used in conjunction with the Harvard Apparatus/AmiKa ElectroPrep system.

Fast DIALYZERS: Ordering Information

Chamber Volume (µl)	Qty. of 1	\$	Qty. of 5	\$
25	SSU 0025.1	141.00	SSU 0025	568.00
50	SSU 0050.1	141.00	SSU 0050	568.00
100	SSU 0200.1	141.00	SSU 0200	568.00
250	SSU 0250.1	141.00	SSU 0250	568.00
500	SSU 0500.1	141.00	SSU 0500	568.00
1500	SSU 1500.1	141.00	SSU 1500	568.00
3000	SSU 3000.1	141.00	SSU 3000	568.00
5000	SSU 5000.1	141.00	SSU 5000	568.00

For Membrane ordering information, see pages 402-404

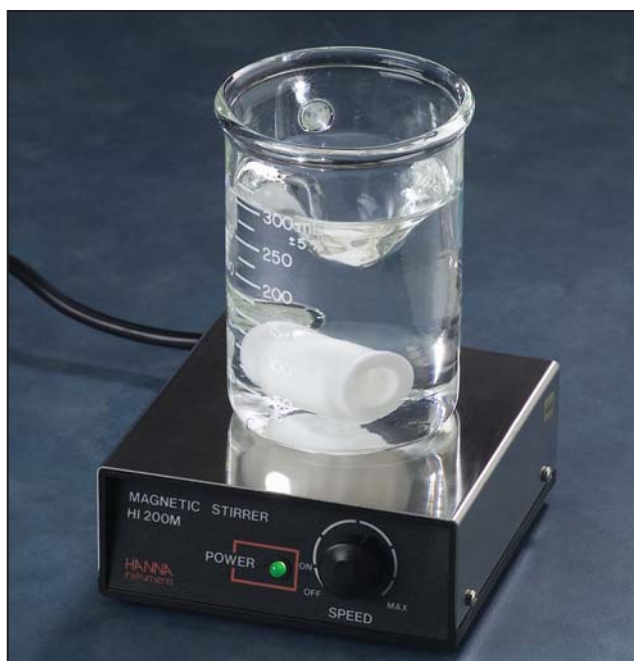
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SpinDIALYZER™ and Fast SpinDIALYZER™



SpinDIALYZER™

The SpinDIALYZER is our high-quality DIALYZER with a magnetic feature incorporated internally. This enables the entire SpinDIALYZER unit to be rotated during dialysis using a magnetic stir plate (Catalog No. NP 72-1975). The constant motion of the sample results in dialysis times that are 50 to 100% faster than with the DIALYZER.

Fast SpinDIALYZER™

The Fast SpinDIALYZER is our high-quality Fast DIALYZER with a magnetic feature incorporated internally. This enables the entire Fast SpinDIALYZER unit to be rotated during dialysis using a magnetic stir plate (Catalog No. NP 72-1975). The constant motion of the sample results in dialysis times that are 50 to 100% faster than with the Fast DIALYZER. As with the Fast DIALYZER, the Fast SpinDIALYZER has two dialysis ports.

SpinDIALYZERS and Fast SpinDIALYZERS: Ordering Information

Chamber Volume (µl)	SpinDIALYZER Qty. of 1	SpinDIALYZER Qty. of 5	Fast SpinDIALYZER Qty. of 1	Fast SpinDIALYZER Qty. of 5
10	SSM 0010.1	SSM 0010	–	–
\$	124.00	449.00		
20	SSM 0020.1	SSM 0020	–	–
\$	124.00	449.00		
50	SSM 0050.1	SSM 0050	SSN 0050.1	SSN 0050
\$	124.00	449.00	147.00	597.00
100	SSM 0100.1	SSM 0100	SSN 0100.1	SSN 0100
\$	124.00	449.00	147.00	597.00
200	SSM 0200.1	SSM 0200	SSN 0200.1	SSN 0200
\$	124.00	449.00	147.00	597.00
500	SSM 0500.1	SSM 0500	SSN 0500.1	SSN 0500
\$	124.00	449.00	147.00	597.00
1000	SSM 1000.1	SSM 1000	SSN 1000.1	SSN 1000
\$	124.00	449.00	147.00	597.00
1500	SSM 1500.1	SSM 1500	SSN 1500.1	SSN 1500
\$	124.00	449.00	147.00	597.00

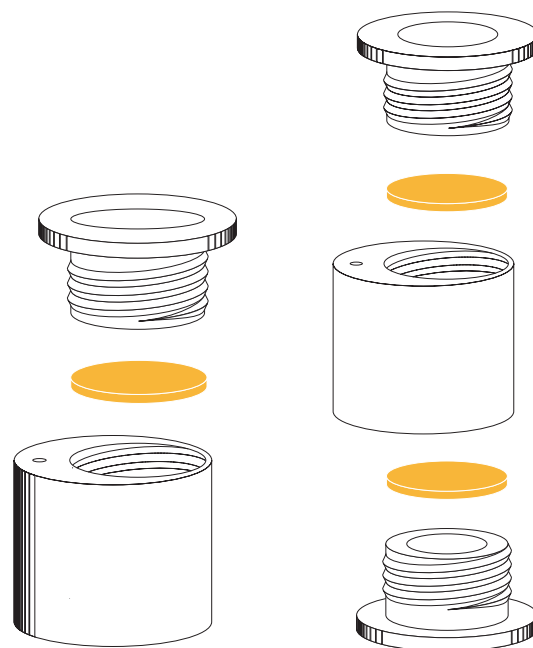
Advantages:

- Faster dialysis times due to an internal magnet
- 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
- Rapid dialysis/purification
- Made of Teflon - totally inert

Applications:

- Exchange of buffers
- Removal of detergents
- Concentration of samples
- HPLC, HPCE
- Immunoblotting*
- Purification of proteins, DNA and RNA
- Removal of excess radiolabel
- GC, GC-MS, NMR
- Removal of CsCl, agarose, pyridoxal-5-phosphate*
- Removal of silicates after Chromatography*
- Complex carbohydrate purification*

*When used in conjunction with the Harvard Apparatus/Amika ElectroPrep system.



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Green shaded membranes are for products with sample sizes ranging from 3,000µl to 5,000µl

Membranes for DIALYZERS

A large variety of membranes are available for use with our different dialysis products. The following tables are designed to assist you in choosing the appropriate membranes for your needs. Specialty membranes are also available. Contact The Nest Group for any custom membranes.

Cellulose Acetate

These membranes are low protein binding and have a sharp MWCO range. The membranes are pre-cut, and supplied in 0.05% sodium azide solution. They are ready to use after rinsing with deionized water and buffer. Glycerol, sulfur, and heavy metals are not present in these membranes. The cellulose acetate membranes are intended only for aqueous solutions, and the presence of an organic solvent is not recommended.

Regenerated Cellulose

These membranes are more stable in organic solvents, but the MWCO range is not as sharply defined as that of cellulose acetate membranes. The membranes are pre-cut, and supplied in a 0.05% sodium azide solution. They are ready to use after rinsing with deionized water and buffer. Glycerol, sulfur, or heavy metals are not present in these membranes.

Polycarbonate

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

MEMBRANES for DIALYZER Volumes Ranging from 10 µl to 5000 µl (packs of 25)

MEMBRANES:	Price:	DIALYZER Chamber Volume 10 µl, 20 µl, 50 µl, 100 µl & 200 µl	DIALYZER Chamber Volume 500 µl, 1000 µl & 1500 µl	DIALYZER Chamber Volume 3000 µl & 5000 µl
		\$49.00	\$64.00	\$78.00
A. Regenerated Cellulose MEMBRANES:				
1k Da MWCO		SA010S.24	SB010S.24	SC010S.24
2k Da MWCO		SA020S.24	SB020S.24	SC020S.24
5k Da MWCO		SA050S.24	SB050S.24	SC050S.24
10k Da MWCO		SA100S.24	SB100S.24	SC100S.24
25k Da MWCO		SA250S.24	SB250S.24	SC250S.24
50k Da MWCO		SA500S.24	SB500S.24	SC500S.24
B. Cellulose Acetate MEMBRANES:				
100 Da MWCO		SA001K.24	SB001K.24	SC001K.24
500 Da MWCO		SA005K.24	SB005K.24	SC005K.24
1k Da MWCO		SA010K.24	SB010K.24	SC010K.24
2k Da MWCO		SA020K.24	SB020K.24	SC020K.24
5k Da MWCO		SA050K.24	SB050K.24	SC050K.24
10k Da MWCO		SA100K.24	SB100K.24	SC100K.24
25k Da MWCO		SA250K.24	SB250K.24	SC250K.24
50k Da MWCO		SA500K.24	SB500K.24	SC500K.24
100k Da MWCO		SA111K.24	SB111K.24	SC111K.24
300k Da MWCO		SA333K.24	SB333K.24	SC333K.24
C. Polycarbonate MEMBRANES:				
0.01 µm Pore Size		SA0001P.24	SB0001P.24	SC0001P.24
0.05 µm Pore Size		SA0005P.24	SB0005P.24	SC0005P.24
0.10 µm Pore Size		SA0010P.24	SB0010P.24	SC0010P.24
0.60 µm Pore Size		SA0060P.24	SB0060P.24	SC0060P.24

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Yellow shaded membranes are for products with chamber sizes ranging from 500 µl to 1,500 µl

Green shaded membranes are for products with chamber sizes ranging from 3,000 µl to 5,000 µl