

## Standard Grade RC Membrane: Spectra/Por® 1 - 7

Because Standard Regenerated Cellulose (RC) is composed of natural cellulose polymer from cotton linters, these membranes are perfectly suited for a broad range of laboratory dialysis. This clear and flexible membrane type with symmetric porosity is economical and sturdy; ideal for desalting, buffer exchanges, macromolecular purifications and other general applications. Possessing a broad chemical compatibility range, Standard RC membranes can be used with dilute strong acids and bases, concentrated weak acids and bases, most alcohols and some mild or dilute organic solvents, including DMSO. Exposure to some strong organic solvents may damage RC membranes. Standard RC can be used with pH 2–12 & temperatures 4–121°C. While the low level heavy metal impurities in Standard RC typically pose no problem, they can easily be eliminated using Spectrum's Heavy Metal Cleaning Solution. Standard RC Membrane is available in rolls of dialysis



tubing (dry or pre-treated), dialysis trial kits, ready-to-use dialysis sacks & flat sheet (discs or square sheets).

There are 7 different categories of Standard RC Membrane, Spectra/Por 1 – 7, each possessing unique desirable properties to meet different application needs:

### Spectra/Por® 1 Dialysis Membrane

MWCO: 6,000 – 8,000 Daltons

Properties: Standard RC with glycerol for general dialysis

### Spectra/Por® 2 Dialysis Membrane

MWCO: 12,000 – 14,000 Daltons

Properties: Standard RC with glycerol in special membrane dimension and/or high permeability

### Spectra/Por® 3 Dialysis Membrane

MWCO: 3,500 Daltons

Properties: Standard RC with glycerol for general dialysis

### Spectra/Por® 4 Dialysis Membrane

MWCO: 12,000 – 14,000 Daltons

Properties: Standard RC with glycerol for general dialysis

### Spectra/Por® 5 Dialysis Membrane

MWCO: 12,000 – 14,000 Daltons

Properties: Standard RC with glycerol reinforced with porous paper for large volume and weight

### Spectra/Por® 6 Dialysis Membrane

MWCO: 1, 2, 3.5, 8, 10, 15, 25 & 50 kD

Properties: Standard RC in 0.05% sodium azide, pre-wetted

### Spectra/Por® 7 Dialysis Membrane

MWCO: 1, 2, 3.5, 8, 10, 15, 25 & 50 kD

Properties: Standard RC in 0.05% sodium azide, pre-treated to minimize heavy metals & sulfides



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## Spectra/Por® Standard RC Dialysis Tubing (Dry Rolls)

Multi-purpose dialysis tubing ideal for general dialysis for a variety of applications and volumes.

### Product Specifications

| Membrane Type | MWCO       | 15 Flat Widths (mm)          |
|---------------|------------|------------------------------|
| Spectra/Por 1 | 6 – 8 kD   | 10, 23, 32, 40, 50, 100, 120 |
| Spectra/Por 2 | 12 – 14 kD | 10, 25, 45, 105, 120         |
| Spectra/Por 3 | 3.5 kD     | 18, 45, 54                   |
| Spectra/Por 4 | 12 – 14 kD | 10, 25, 32, 45, 75           |
| Spectra/Por 5 | 12 – 14 kD | 75, 140                      |

Properties: Hydrophilic, symmetric porosity  
 Quantity: 15 or 30 m roll (depending on Type and Flat Width)  
 Packaging: Dry with glycerol (rinse out with water)

**Related Products:** *Tubing Closures (Universal & Spectra/Por®)*  
*Heavy Metal Cleaning Solution*



## NEW! Spectra/Por® Standard RC Dialysis Trial Kits

Provides 5 m lengths of standard RC Dialysis tubing for membrane application evaluation

### Product Specifications

Kit Includes: 5 m roll of Spectra/Por 1, 2 or 3  
 1 standard Spectra/Por Closure  
 1 weighted Spectra/Por Closure  
 5 opening picks

| Membrane Type | MWCO       | 6 Flat Widths (mm) |
|---------------|------------|--------------------|
| Spectra/Por 1 | 6 – 8 kD   | 32 & 50            |
| Spectra/Por 2 | 12 – 14 kD | 25 & 45            |
| Spectra/Por 3 | 3.5 kD     | 18 & 54            |



### Ordering Information: Spectra/Por® 1, 2, 3, 4 & 5 Tubing & Dialysis Kits

|                                      |                | MWCO       | Flat Width (mm) | Diameter (mm) | Vol/Length (ml/cm) | Part No.  |           | NEW Trial Kits |   |   |
|--------------------------------------|----------------|------------|-----------------|---------------|--------------------|-----------|-----------|----------------|---|---|
|                                      |                |            |                 |               |                    | 15 m/roll | 30 m/roll | 5 m/roll       |   |   |
| Standard RC Membrane Dialysis Tubing | Spectra/Por® 1 | 6 - 8 kD   | 10              | 6.4           | 0.32               | 132645    | -         | -              |   |   |
|                                      |                |            | 23              | 14.6          | 1.7                | -         | 132650    | -              |   |   |
|                                      |                |            | 32              | 20.4          | 3.3                | -         | 132655    | 132655T        |   |   |
|                                      |                |            | 40              | 25.5          | 5.1                | -         | 132660    | -              |   |   |
|                                      |                |            | 50              | 32            | 7.9                | -         | 132665    | 132665T        |   |   |
|                                      |                |            | 100             | 64            | 32                 | 132670    | -         | -              |   |   |
|                                      | Spectra/Por® 2 | 12 - 14 kD | 10              | 6.4           | 0.32               | 132676    | -         | -              |   |   |
|                                      |                |            | 25              | 16            | 2.0                | 132678    | -         | 132678T        |   |   |
|                                      |                |            | 45              | 29            | 6.4                | 132680    | -         | 132680T        |   |   |
|                                      |                |            | 105             | 67            | 34                 | 132682    | -         | -              |   |   |
|                                      | Spectra/Por® 3 | 3.5 kD     | 18              | 11.5          | 1.1                | 132720    | -         | 132720T        |   |   |
|                                      |                |            | 45              | 29            | 6.4                | 132724    | -         | -              |   |   |
|                                      |                |            | 54              | 34            | 9.3                | 132725    | -         | 132725T        |   |   |
|                                      | Spectra/Por® 4 | 12 - 14 kD | 10              | 6.4           | 0.32               | -         | 132697    | -              |   |   |
|                                      |                |            | 25              | 16            | 2.0                | -         | 132700    | -              |   |   |
|                                      |                |            | 32              | 20.4          | 3.3                | -         | 132703    | -              |   |   |
|                                      |                |            | 45              | 29            | 6.4                | -         | 132706    | -              |   |   |
|                                      | Spectra/Por® 5 | 12 - 14 kD | 75              | 48            | 18                 | 132709    | -         | -              |   |   |
| 140                                  |                |            | 89              | 62            | 132754             | -         | -         |                |   |   |
|                                      |                |            |                 |               |                    |           |           | 132757         | - | - |

## Standard RC Dialysis Tubing, Pre-treated (Wet Rolls)

Multi-purpose dialysis tubing with more MWCO's available. Pre-wetted Spectra/Por 6 tubing is ready-to-use, not requiring soaking to remove glycerol. Spectra/Por 7 is further pre-cleaned to minimize trace levels of heavy metals & sulfides.

### Product Specifications: 2 Treatment Types

**Spectra/Por® 6:** Pre-wetted  
 8 MWCO's: 1 kD, 2 kD, 3.5 kD, 8 kD, 10 kD, 15 kD, 25 kD & 50 kD  
 13 Flat Widths: 8 mm, 10mm, 12 mm, 18 mm, 24 mm, 28 mm, 32 mm,  
 34 mm, 38 mm, 40 mm, 45 mm, 50 mm & 54 mm  
 Qty & Pkg: 10 m roll, wet in 0.05% sodium azide

**Spectra/Por® 7:** Pre-treated to reduce trace-level contaminants  
 8 MWCO's: 1 kD, 2 kD, 3.5 kD, 8 kD, 10 kD, 15 kD, 25 kD & 50 kD  
 12 Flat Widths: 8 mm, 12 mm, 18 mm, 24 mm, 28 mm, 32 mm,  
 34 mm, 38 mm, 40 mm, 45 mm, 50 mm & 54 mm  
 Qty & Pkg: 5 m roll, wet in 0.05% sodium azide



### Ordering Information: Spectra/Por® 6 & Spectra/Por® 7 Tubing

|  | MWCO (kD) | Flat Width (mm) | Diameter (mm) | Volume/Length (ml/cm) | Spectra/Por® 6 | Spectra/Por® 7 |
|--|-----------|-----------------|---------------|-----------------------|----------------|----------------|
|  |           |                 |               |                       | (pre-wetted)   | (pre-cleaned)  |
| Standard RC Membrane<br>Pre-treated Tubing | 1         | 18              | 11.5          | 1.1                   | 132636         | 132103         |
|  |           | 38              | 24            | 4.6                   | 132638         | 132104         |
|  |           | 45              | 29            | 6.4                   | 132640         | 132105         |
|  | 2         | 18              | 11.5          | 1.1                   | 132620         | 132107         |
|  |           | 38              | 24            | 4.6                   | 132625         | 132108         |
|  |           | 45              | 29            | 6.4                   | 132633         | 132109         |
|  | 3.5       | 18              | 11.5          | 1.1                   | 132590         | 132110         |
|  |           | 45              | 29            | 6.4                   | 132592         | 132111         |
|  |           | 54              | 34            | 9.3                   | 132594         | 132112         |
|  | 8         | 8               | 5.1           | 0.20                  | 128056         | 128356         |
|  |           | 12              | 7.5           | 0.45                  | 132579         | 132113         |
|  |           | 18              | 11.5          | 1.1                   | 128058         | 128358         |
| 24   |           | 15              | 1.8           | 132580                | 132114         |                |
| 32   |           | 20.4            | 3.3           | 132582                | 132115         |                |
| 40   |           | 25.5            | 5.1           | 132584                | 132116         |                |
| 10   | 50        | 32              | 7.9           | 132586                | 132131         |                |
|  | 8         | 5.1             | 0.20          | 128106                | 128406         |                |
|  | 12        | 7.5             | 0.45          | 132570                | 132117         |                |
|  | 18        | 11.5            | 1.1           | 128118                | 128418         |                |
|  | 24        | 15              | 1.8           | 132572                | 132118         |                |
|  | 32        | 20.4            | 3.3           | 132574                | 132119         |                |
| 15   | 45        | 29              | 6.4           | 132576                | 132120         |                |
|  | 8         | 5.1             | 0.20          | 128156                | 128456         |                |
|  | 12        | 7.5             | 0.45          | 132560                | 132121         |                |
|  | 18        | 11.5            | 1.1           | 128158                | 128458         |                |
|  | 24        | 15              | 1.8           | 132562                | 132122         |                |
| 25   | 32        | 20.4            | 3.3           | 132564                | 132123         |                |
|  | 45        | 29              | 6.4           | 132566                | 132124         |                |
|  | 8         | 5.1             | 0.20          | 128206                | 128506         |                |
|  | 12        | 7.5             | 0.45          | 132550                | 132125         |                |
|  | 18        | 11.5            | 1.1           | 128218                | 128518         |                |
|  | 24        | 15              | 1.8           | 128224                | 128524         |                |
| 50   | 28        | 18              | 2.5           | 132552                | 132126         |                |
|  | 34        | 22              | 3.7           | 132554                | 132127         |                |
|  | 10        | 6.4             | 0.32          | 132539                | -              |                |
|  | 12        | 7.5             | 0.45          | 132540                | 132128         |                |
|  | 28        | 18              | 2.5           | 132542                | 132129         |                |
|  |           |                 |               | 132544                | 132130         |                |
|  |           |                 |               | Qty                   | 10 m           | 5 m            |



## Standard RC Ready-to-Use Dialysis Sacks

Designed for the general dialysis of larger sample volumes, the Ready-to-Use Sack consists of a 60 cm length of Spectra/Por 1, 2, 3 or 4 tubing, sealed at one end with a Spectra/Por Closure and a funnel attached to the other for easy filling. Simply fill, apply closure & cut.

### Product Specifications

- 4 Membrane Types: Spectra/Por 1, 2, 3 & 4
- 2 Volume Sizes: 1 – 40 ml, 50 – 400 ml
- Properties: Hydrophilic, symmetric porosity
- Packaging: Wet in 0.05% sodium azide
- Quantity: 10/pkg

### Ordering Information: Spectra/Por® 1, 2, 3, 4 & 5 Sacks

|   |                | MWCO       | Flat Width (mm) | Diameter (mm) | Volume (ml) | Part No. | Qty    |
|---|----------------|------------|-----------------|---------------|-------------|----------|--------|
| Standard RC Membrane Ready-to-Use Sacks | Spectra/Por® 1 | 6 - 8 kD   | 23              | 14.6          | 1 to 40     | 132651   | 10/pkg |
|   |                |            | 50              | 32            | 50 to 400   | 132666   |        |
|   | Spectra/Por® 2 | 12 - 14 kD | 25              | 16            | 1 to 40     | 132679   |        |
|   |                |            | 45              | 29            | 50 to 400   | 132681   |        |
|   | Spectra/Por® 3 | 3.5 kD     | 18              | 11.5          | 1 to 40     | 132721   |        |
|   |                |            | 54              | 34            | 50 to 400   | 132726   |        |
|   | Spectra/Por® 4 | 12 - 14 kD | 25              | 16            | 1 to 40     | 132701   |        |
|   |                |            | 45              | 29            | 50 to 400   | 132707   |        |



## Standard RC Dialysis Discs & Sheets

Pre-cut membrane discs for use with Spectra/Por MacroDialyzers and Equilibrium Dialyzers. Cut square membrane sheets to use as needed for a variety of dialysis equipment.

### Product Specifications

- 5 Membrane Types: Spectra/Por 1, 2, 3, 4 & 5
- 3 Disc Diameters: 33 mm, 47 mm, 100 mm (used with Macro & Eq. Dialyzer)
- Sheet Size: (refer to ordering information)
- Properties: Hydrophilic, symmetric porosity
- Packaging: Dry with glycerol (rinse out with water)
- Quantity: 50/pkg (discs), 25/pkg (sheets)

**Related Products:** *MacroDialyzer & Equilibrium Dialyzer*

### Ordering Information: Spectra/Por® 1, 2, 3, 4 & 5 Discs & Sheets

|  |                | MWCO       | Disc Diameter |        |        | Qty          | Sheet (Dimensions - mm) | Qty           |
|--|----------------|------------|---------------|--------|--------|--------------|-------------------------|---------------|
|  |                |            | 33 mm         | 47 mm  | 100 mm |              |                         |               |
| Standard RC Membrane Dialysis Discs & Sheets | Spectra/Por® 1 | 6 - 8 kD   | 132478        | 132476 | 132474 | 50 discs/pkg | 132677<br>(240 x 240)   | 25 sheets/pkg |
|  | Spectra/Por® 2 | 12 - 14 kD | 132482        | 132480 | 132477 |              | 132686<br>(200 x 200)   |               |
|  | Spectra/Por® 3 | 3.5 kD     | 132488        | 132486 | 132484 |              | 132723<br>(108 x 108)   |               |
|  | Spectra/Por® 4 | 12 - 14 kD | 132498        | 132496 | 132494 |              | 132712<br>(150 x 150)   |               |
|  | Spectra/Por® 5 | 12 - 14 kD | -             | -      | -      |              | 132759<br>(275 x 275)   |               |