

# Трубчатые мембраны для диализа CARL ROTH

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# Dialysis tubular membranes

## Dialysis membrane Membra-Cel™

Viskase. Material: Cellulose, regenerated. Autoclavable: Yes.  
Colourless, transparent to slightly opaque, semi-permeable and seamless. Application area: Dialysis and ultrafiltration in the laboratory.

- **Exclusion limit (MWCO) 14,000**
- Dry packaged on rolls, treated with glycerine
- Stable in the pH range from 5 to 9
- No unspecific protein binding, protein adsorption < 1 ng/g
- Autoclavable up to +120 °C (max. 15 min, immersed in distilled water)



**A 121 °C**

Not a medical device / Not an IVD product

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
14000	10	6	51	Roll	30 m	1780.1	1 unit(s)
14000	10	6	51	Roll	152 m	1781.1	1 unit(s)
14000	25	16	20	Roll	152 m	0653.1	1 unit(s)
14000	34	22	23	Roll	152 m	0654.1	1 unit(s)
14000	34	22	23	Roll	30 m	1784.1	1 unit(s)
14000	44	28	20	Roll	152 m	0655.1	1 unit(s)
14000	44	28	20	Roll	30 m	1785.1	1 unit(s)
14000	77	49	41	Roll	30 m	5358.1	1 unit(s)

## Dialysis membrane Nadir®

Material: Cellulose, regenerated.  
Suitable for laboratory experiments. MWCO approx. 10,000–20,000 daltons. **Packaged dry** on roles, glycerine content approx. 21%.



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MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Packaging type	Pack.	Art. No.	Pack Qty.
~ 10 000 - 20 000	62.8	40	Roll	25 m	5101.1	1 unit(s)
~ 10 000 - 20 000	62.8	40	Roll	100 m	5101.2	1 unit(s)
~ 10 000 - 20 000	66.0	42	Roll	25 m	5102.1	1 unit(s)
~ 10 000 - 20 000	66.0	42	Roll	100 m	5102.2	1 unit(s)
~ 10 000 - 20 000	78.5	50	Roll	25 m	5104.1	1 unit(s)
~ 10 000 - 20 000	78.5	50	Roll	100 m	5104.2	1 unit(s)



# Dialysis tubular membranes

## Dialysis membrane Spectra/Por® 1 to 4

Repligen. Material: Cellulose, regenerated.

- High-quality membranes on rolls, **packaged dry**
- Max. application temperature +60 °C
- Good resistance to chemicals
- Treated with glycerine to protect against embrittlement
- Contain low quantities of contaminations such as sulphides and heavy metals
- **Metal traces:** Cadmium < 0.02 ppm, lead 2–6 ppm, chromium 0.1–0.2 ppm, magnesium 0.1–0.3 ppm, copper 0.8–1.2 ppm, nickel 1.3–1.7 ppm, iron 20–60 ppm, zinc 1.5–5 ppm



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### Spectra/Por® 1 - MWCO 6000 to 8000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
6000–8000	10	6.4	30-50	Roll	15 m	1954.1	1 unit(s)
6000–8000	23	14.6	30-50	Roll	30 m	1955.1	1 unit(s)
6000–8000	32	20.4	30-50	Roll	30 m	1956.1	1 unit(s)
6000–8000	40	25.5	30-50	Roll	30 m	2710.1	1 unit(s)
6000–8000	50	31.8	30-50	Roll	30 m	2711.1	1 unit(s)
6000–8000	100	63.7	70	Roll	15 m	2712.1	1 unit(s)
6000–8000	120	76.4	70	Roll	15 m	2713.1	1 unit(s)

### Spectra/Por® 2 - MWCO 12,000 to 14,000

Highly porous membranes for high dialysis rates.

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
12000–14000	10	6.4	20-50	Roll	15 m	1958.1	1 unit(s)
12000–14000	25	15.9	20-50	Roll	15 m	1964.1	1 unit(s)
12000–14000	45	28.6	20-50	Roll	15 m	2714.1	1 unit(s)
12000–14000	105	63.7	135-155	Roll	15 m	2715.1	1 unit(s)
12000–14000	120	76.4	135-155	Roll	15 m	2716.1	1 unit(s)

### Spectra/Por® 3 - MWCO 3500

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
3500	18	11.5	25–30	Roll	15 m	0978.1	1 unit(s)
3500	45	28.6	25–30	Roll	15 m	0959.1	1 unit(s)
3500	54	34.0	25–30	Roll	15 m	0983.1	1 unit(s)

### Spectra/Por® 4 - MWCO 12,000 to 14,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
12000–14000	10	6.4	20–50	Roll	30 m	2717.1	1 unit(s)
12000–14000	25	15.9	20–50	Roll	30 m	2718.1	1 unit(s)
12000–14000	32	20.4	20–50	Roll	30 m	2719.1	1 unit(s)
12000–14000	45	28.6	20–50	Roll	30 m	2720.1	1 unit(s)
12000–14000	75	47.7	20–50	Roll	15 m	2721.1	1 unit(s)

# Dialysis tubular membranes

## Trial kit Spectra/Por® 1-3

Repligen. Material: Cellulose, regenerated.

**Hose membrane pieces on rolls, packaged dry.** Particularly suitable for small-scale dialysis and for testing membranes for special applications.



**Delivery incl.** 1 pair of Spectra/Por® locking clips made of PP (1x with weight, 1x without).

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### Spectra/Por® 1 – MWCO 6000–8000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Packaging type	Pack.	Art. No.	Pack Qty.
6000–8000	32	20.4	Roll	5 m	4570.1	1 unit(s)
6000–8000	50	32.0	Roll	5 m	4572.1	1 unit(s)

### Spectra/Por® 2 - MWCO 12,000–14,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Packaging type	Pack.	Art. No.	Pack Qty.
12000–14000	25	16.0	Roll	5 m	4574.1	1 unit(s)
12000–14000	45	29.0	Roll	5 m	4577.1	1 unit(s)

### Spectra/Por® 3 - MWCO 3500

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Packaging type	Pack.	Art. No.	Pack Qty.
3500	18	11.5	Roll	5 m	4578.1	1 unit(s)
3500	54	34.0	Roll	5 m	4579.1	1 unit(s)

## Dialysis membrane Spectra/Por® 6

Repligen. Material: Cellulose, regenerated.

- **Packaged moist** in 0.05% sodium azide solution, on rolls
- Contain low quantities of contaminations such as sulphides and heavy metals
- Recommended storage temperature +4 °C
- Max. application temperature +60 °C
- **Metal traces:** Cadmium < 0.02 ppm, lead 2–6 ppm, chromium 0.1–0.2 ppm, magnesium 0.1–0.3 ppm, copper 0.8–1.2 ppm, nickel 1.3–1.7 ppm, iron 20–60 ppm, zinc 1.5–5 ppm



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### MWCO 1000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
1000	18	11.5	60–65	Roll	10 m	1966.1	1 unit(s)
1000	38	24.0	60–65	Roll	10 m	1967.1	1 unit(s)
1000	45	29.0	60–65	Roll	10 m	1968.1	1 unit(s)

### MWCO 2000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
2000	18	11.5	60–65	Roll	10 m	1973.1	1 unit(s)
2000	38	24.0	60–65	Roll	10 m	1974.1	1 unit(s)
2000	45	29.0	60–65	Roll	10 m	1975.1	1 unit(s)

### MWCO 3500

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
3500	18	11.5	60–65	Roll	10 m	1976.1	1 unit(s)
3500	45	29.0	60–65	Roll	10 m	1977.1	1 unit(s)
3500	54	34.0	60–65	Roll	10 m	1978.1	1 unit(s)



# Dialysis tubular membranes

## MWCO 8000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
8000	12	7.5	60–65	Roll	10 m	1924.1	1 unit(s)
8000	24	15.0	60–65	Roll	10 m	1926.1	1 unit(s)
8000	40	25.5	60–65	Roll	10 m	1934.1	1 unit(s)
8000	50	32.0	60–65	Roll	10 m	1935.1	1 unit(s)

## MWCO 10,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
10000	12	7.5	60–65	Roll	10 m	1990.1	1 unit(s)
10000	24	15.0	60–65	Roll	10 m	1991.1	1 unit(s)
10000	32	20.4	60–65	Roll	10 m	1992.1	1 unit(s)
10000	45	29.0	60–65	Roll	10 m	1996.1	1 unit(s)

## MWCO 15,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
15000	12	7.5	60–65	Roll	10 m	1881.1	1 unit(s)
15000	24	15.0	60–65	Roll	10 m	1883.1	1 unit(s)
15000	32	20.4	60–65	Roll	10 m	1887.1	1 unit(s)
15000	45	29.0	60–65	Roll	10 m	1888.1	1 unit(s)

## MWCO 25,000 (opaque)

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
25000	12	7.5	60–65	Roll	10 m	1979.1	1 unit(s)
25000	28	18.0	60–65	Roll	10 m	1981.1	1 unit(s)
25000	34	22.0	60–65	Roll	10 m	1982.1	1 unit(s)

## MWCO 50,000 (opaque)

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
50000	12	7.5	60–65	Roll	10 m	1891.1	1 unit(s)
50000	28	18.0	60–65	Roll	10 m	1892.1	1 unit(s)
50000	34	22.0	60–65	Roll	10 m	1893.1	1 unit(s)

## Dialysis membrane Spectra/Por® 7

Repligen. Material: Cellulose, regenerated.

- **Packaged moist** in 0.05% sodium azide solution, on rolls
- **Highly pure membranes without trace elements** such as heavy metals, sulphides, glycerine
- Can be used without the need for complex cleaning processes
- Recommended storage temperature +4 °C
- Max. application temperature +60 °C

Not a medical device / Not an IVD product

## MWCO 1000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
1000	18	11.5	60–65	Roll	5 m	E853.1	1 unit(s)
1000	38	24.0	60–65	Roll	5 m	E854.1	1 unit(s)
1000	45	29.0	60–65	Roll	5 m	E855.1	1 unit(s)

## MWCO 2000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
2000	18	11.5	60–65	Roll	5 m	E856.1	1 unit(s)
2000	38	24.0	60–65	Roll	5 m	E857.1	1 unit(s)
2000	45	29.0	60–65	Roll	5 m	E858.1	1 unit(s)

## MWCO 3500

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
3500	18	11.54	60–65	Roll	5 m	E859.1	1 unit(s)
3500	45	29.0	60–65	Roll	5 m	E860.1	1 unit(s)
3500	54	34.0	60–65	Roll	5 m	E861.1	1 unit(s)

# Dialysis tubular membranes

## MWCO 8000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
8000	12	7.5	60–65	Roll	5 m	<b>E862.1</b>	1 unit(s)
8000	18	11.5	60–65	Roll	5 m	<b>E863.1</b>	1 unit(s)
8000	24	15.0	60–65	Roll	5 m	<b>E864.1</b>	1 unit(s)
8000	32	20.4	60–65	Roll	5 m	<b>E865.1</b>	1 unit(s)
8000	40	25.5	60–65	Roll	5 m	<b>E866.1</b>	1 unit(s)
8000	50	32.0	60–65	Roll	5 m	<b>E867.1</b>	1 unit(s)

## MWCO 10,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
10000	12	7.5	60–65	Roll	5 m	<b>E868.1</b>	1 unit(s)
10000	18	11.5	60–65	Roll	5 m	<b>E869.1</b>	1 unit(s)
10000	24	15.0	60–65	Roll	5 m	<b>E870.1</b>	1 unit(s)
10000	32	20.4	60–65	Roll	5 m	<b>E871.1</b>	1 unit(s)
10000	45	29.0	60–65	Roll	5 m	<b>E872.1</b>	1 unit(s)

## MWCO 15,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
15000	12	7.5	60–65	Roll	5 m	<b>E873.1</b>	1 unit(s)
15000	24	15.0	60–65	Roll	5 m	<b>E875.1</b>	1 unit(s)
15000	32	20.4	60–65	Roll	5 m	<b>E876.1</b>	1 unit(s)
15000	45	29.0	60–65	Roll	5 m	<b>E877.1</b>	1 unit(s)

## MWCO 25,000 (opaque)

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
25000	12	7.5	60–65	Roll	5 m	<b>E878.1</b>	1 unit(s)
25000	18	11.5	60–65	Roll	5 m	<b>E879.1</b>	1 unit(s)
25000	28	18.0	60–65	Roll	5 m	<b>E881.1</b>	1 unit(s)
25000	34	22.0	60–65	Roll	5 m	<b>E882.1</b>	1 unit(s)

## MWCO 50,000 (opaque)

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
50000	12	7.5	60–65	Roll	5 m	<b>E883.1</b>	1 unit(s)
50000	28	18.0	60–65	Roll	5 m	<b>E884.1</b>	1 unit(s)
50000	34	22.0	60–65	Roll	5 m	<b>E885.1</b>	1 unit(s)

## Dialysis membrane Spectra/Por® Biotech CE

Repligen. Material: CE.

- **Very high purity**, contain no trace elements, heavy metals, sulphides or glycerine
- Low reactivity of the membrane, therefore hardly any adsorption of proteins and liposomes
- No time-consuming cleaning processes necessary
- Max. application temperature +37 °C
- **Packaged moist** in 0.05% sodium azide solution
- Recommended storage temperature +4 °C



Not a medical device / Not an IVD product

## MWCO 100–500

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
100–500	10	6.4	75–85	Roll	10 m	<b>2702.1</b>	1 unit(s)
100–500	16	10.2	75–85	Roll	10 m	<b>4594.1</b>	1 unit(s)

## MWCO 500–1000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
500–1000	10	6.4	75–85	Roll	10 m	<b>2704.1</b>	1 unit(s)
500–1000	16	10.2	75–85	Roll	10 m	<b>4596.1</b>	1 unit(s)



# Dialysis tubular membranes

## MWCO 3500–5000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
3500–5000	10	6.4	75–85	Roll	10 m	2708.1	1 unit(s)
3500–5000	16	10.2	75–85	Roll	10 m	4616.1	1 unit(s)

## MWCO 8000–10,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
8000–10000	10	6.4	75–85	Roll	10 m	4633.1	1 unit(s)
8000–10000	16	10.2	75–85	Roll	10 m	4635.1	1 unit(s)

## MWCO 20,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
20000	10	6.4	75–85	Roll	10 m	4643.1	1 unit(s)
20000	16	10.2	75–85	Roll	10 m	4646.1	1 unit(s)

## MWCO 50,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
50000	10	6.4	75–85	Roll	10 m	8957.1	1 unit(s)
50000	16	10.2	75–85	Roll	10 m	8959.1	1 unit(s)

## MWCO 100,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
100000	10	6.4	100–125	Roll	10 m	8960.1	1 unit(s)
100000	16	10.2	100–125	Roll	10 m	8967.1	1 unit(s)
100000	24	15.2	100–125	Roll	10 m	8968.1	1 unit(s)

## MWCO 300,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
300000	16	10.2	100–125	Roll	10 m	8977.1	1 unit(s)

## MWCO 1,000,000

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Wall thickness (µm)	Packaging type	Pack.	Art. No.	Pack Qty.
1000000	16	10.2	100–125	Roll	10 m	2786.1	1 unit(s)

## Trial kit Spectra/Por® Biotech CE

Repligen. Material: CE.

**Hose membrane pieces on rolls, packaged moist** in 0.05% sodium azide solution. Particularly suitable for dialysis where only a small amount of tubing is required (test runs, small-scale applications, etc.).

**Delivery incl.** 1 pair of Spectra/Por® universal locking clips (red, seal length 50 mm).

Not a medical device / Not an IVD product

MWCO (dalton(s))	Surface width (mm)	Ø (mm)	Packaging type	Pack.	Art. No.	Pack Qty.
100 - 500	16	10	Roll	1 m	4556.1	1 unit(s)
500 - 1000	16	10	Roll	1 m	4558.1	1 unit(s)
3500 - 5000	16	10	Roll	1 m	4567.1	1 unit(s)
8000 - 10000	16	10	Roll	1 m	4583.1	1 unit(s)
20000	16	10	Roll	1 m	4584.1	1 unit(s)
50000	16	10	Roll	1 m	4585.1	1 unit(s)
100000	16	10	Roll	1 m	4586.1	1 unit(s)
300000	16	10	Roll	1 m	4587.1	1 unit(s)
1000000	16	10	Roll	1 m	4588.1	1 unit(s)

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