Researcher™41 Green

Single Use Gamma Irradiated Hollow Fiber Cartridges. Easy and Reliable

The Researcher™ Green crossflow hollow fiber membrane cartridges are designed for pilot scale and small scale production. It is also the perfect tool for process development. With a surface area of 1,716 cm^2, the Researcher™41 Green can accommodate batch volumes that range from 1,000 mL to 8,000 mL with an average permeate flow rate of 5.2-10 L/hr for ultrafiltration applications and 3.4-6.9 L/hr for microfiltration applications.

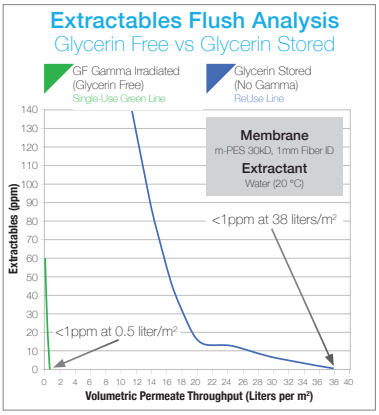
The Researcher™ Green cartridges are gamma irradiated and ready to use, and utilize WaterSep's antifouling, low binding, modified polyethersulfone membrane (m-PES) which provides a process flux and product recovery that typically exceeds other crossflow devices.

The Researcher™41 Green hollow fiber cartridges are offered with the same path length as other high performance WaterSep HF cartridges, which makes scale up/scale down easy and predictable.

Researcher™ Green cartridges are also offered as part of fully integrated open architecture single use crossflow assemblies available with pressure sensors, flow meters, pumpheads, aseptic connectors or bags.

The Researcher™41 Green cartridges offer a true single use crossflow system that provides:

- Significant cost savings over traditional cassette formats.
- Gamma irradiated - ready to use - no rinse required.
- No humectants - 80x less extractables. (See Extractables Flush Analysis)
- No time-consuming cleaning validation.
- Reduced risk of cross contamination.
- Consistent membrane performance batch to batch.
- Self-contained – no assembly – no expensive hardware – no membrane installation.
- Every HF cartridge is integrity tested and has an individual lot number for easy traceability.



TYPICAL APPLICATIONS

- Clarification of mammalian/**CHO cell** cultures and maximizing protein recovery.
- **Cell-harvest**. (Excellent results have been achieved with both *E. Coli* whole cells and *E. Coli* lysates, as well as other microbial process streams.)
- Concentration and purification of **vaccines**.
- Concentration and diafiltration of **gene therapy** products.
- Concentration/diafiltration of **monoclonal antibodies**, recombinant proteins, biological macromolecules and **peptides**.

Researcher™41 Green

ORDERING INFORMATION

Place orders online at www.watersep.net, or email purchase orders to orders@watersep.net, sales order confirmation to follow.

Researcher™41 Green HF Cartridge

0.5 mm ID
SU XXX 05RES41 S3, 3/pkg
SU XXX 05RES41 S6, 6/pkg

1.0 mm ID
SU XXX 10RES41 S3, 3/pkg
SU XXX 10RES41 S6, 6/pkg

2.0 mm ID*
SU XXX 20RES41 S3, 3/pkg
*Available in 10K, 50K, 300K-750K and 0.1 μm - 0.45 μm

Replace XXX with:

003 for 3K	050 for 50K	750 for 750K
005 for 5K	100 for 100K	910 for 0.1 μm
010 for 10K	300 for 300K	920 for 0.2 μm
030 for 30K	500 for 500K	945 for 0.45 μm

SPECIFICATIONS

Cartridge Dimensions
0.75” (1.91 cm) x 41.77” (106.10 cm)

Membrane Surface Area
1.85 ft^2 (1,716 cm^2)

Molecular Weight Cut-off
3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 750K

Membrane Pore Size
0.1 μm, 0.2 μm and 0.45 μm

Fiber ID
0.5 mm, 1.0 mm, 2.0 mm

MATERIALS OF CONSTRUCTION

The cartridge as assembled is USP Class VI compliant.

Membrane
Modified Polyethersulfone (m-PES)

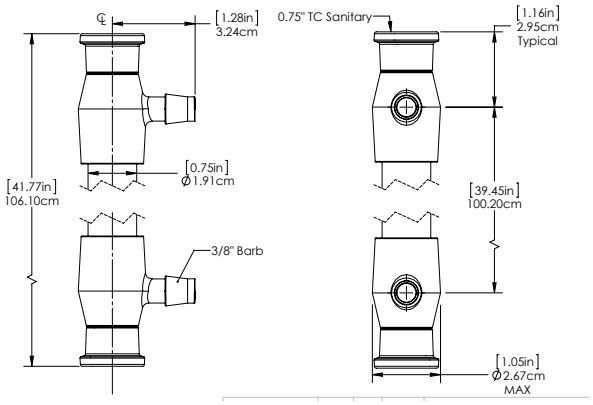
Housing
White Polysulfone

Encapsulant
Medical Grade Epoxy

CONNECTIONS

Feed/Retentate
0.75” TC Sanitary Fitting

Permeate
3/8” Barb



Technical Support: experttalk@watersep.net
or call 508.970.0089 x 204.