

▲ Explorer™ 41 Green

Gamma Irradiated Single Use Hollow Fiber Cartridges Easy and Reliable



The Explorer™ 41 Green hollow fiber membrane cartridges are designed for laboratory scale biopharmaceutical applications for volumes that range from 300 mL to 3000 mL, with a final retentive volume of less than 35 mL. The Explorer™ 41 Green cartridges have a membrane surface area of 579 cm², providing an average permeate flow rate of 1.7-3.5 L/hr for ultrafiltration applications and 1.2-2.3 L/hr for microfiltration applications.

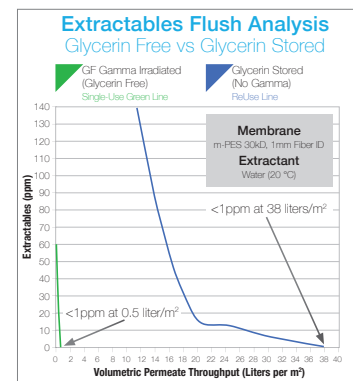
The Explorer™ Green cartridges are gamma irradiated and ready to use, and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product recovery.

The fluid path length for the Explorer™ 41 Green cartridges is similar to all other WaterSep 41" hollow fiber cartridges making scale up and scale down very easy and predictable.

Explorer™ 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 Explorer™ 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 pre-rinse required.
- No humectants - 80x less extractables, see [Extractables Flush Analysis](#).
- No need for 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**.

Explorer™ 41 Green

ORDERING INFORMATION

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

Explorer™ 41 Green HF Cartridge

0.5 mm Fiber ID

SU XXX 05EXP41 S6, 6/pkg

SU XXX 05EXP41 SD, 12/pkg

1.0 mm Fiber ID

SU XXX 10EXP41 S6, 6/pkg

SU XXX 10EXP41 SD, 12/pkg

2.0 mm Fiber ID*

SU XXX 20EXP41 S6, 6/pkg

SU XXX 20EXP41 SD, 12/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

0.5" (13 mm) x 41.80" (1062 mm)

Membrane Surface Area

0.62 ft² (579 cm²)

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

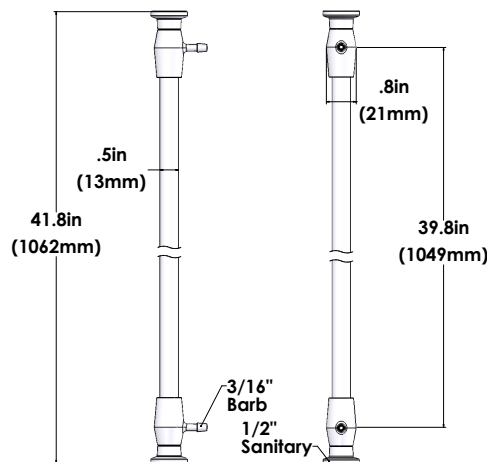
CONNECTIONS

Feed/Retentate

0.5" TC Sanitary Fitting

Permeate

3/16" Hose Barb



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