

Investigator41 Green

Single Use Gamma Irradiated Hollow Fiber Cartridges. Easy and Reliable



The **Investigator Green** cross flow hollow fiber membrane cartridges are designed for pilot scale and small scale production and is the perfect tool for process development. With a surface area of 5,000 cm², the **Investigator41 Green** can accommodate batch volumes that range from 3L to 25L with a typical permeate flow rate of 15-30 L/hr for ultrafiltration applications and 10-20 L/hr for microfiltration applications.

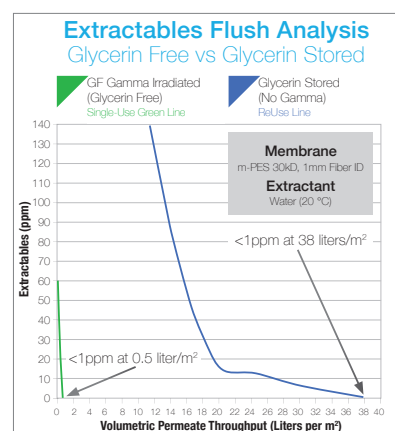
The **Investigator Green** cartridges utilize WaterSep's well accepted antifouling, low binding, modified polyethersulfone membrane (m-PES) which provides a process flux and product recovery that exceeds other crossflow devices.

The **Investigator41 Green** hollow fiber cartridges are offered with the same path length as other high performance WaterSep HF cartridges, which makes scale down easy and predictable.

Investigator Green cartridges are also offered as part of fully integrated open architecture single use cross flow assemblies available with pressure sensors, flow meters, pumps, aseptic connectors and/or bags.

The **Investigator41 Green** cartridges offer a true single use cross flow system that provides:

- Significant cost savings over traditional cassette formats.
- Gamma irradiated - ready to use - no pre-rinse.
- No humectants - 80% 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**.

Investigator41 Green

ORDERING INFORMATION

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

Investigator41 Green HF Cartridge

0.5 mm Fiber ID*

SU XXX 05INV41 S3, 3/pkg

SU XXX 05INV41 S6, 6/pkg

5.38 ft², (0.5 m²)

*Not made in 0.65 μ 1.0 mm Fiber ID

1.0 mm Fiber ID

SU XXX 10INV41 S3, 3/pkg

SU XXX 10INV41 S6, 6/pkg

5.38 ft², (0.5 m²)

2.0 mm Fiber ID*

SU XXX 20INV41 S3, 3/pkg

SU XXX 20INV41 S6, 6/pkg

5.38 ft², (0.5 m²)

*Available in 10K, 50K, 300K - 750K and 0.1 μ m - 0.45 μ m

Replace XXX with:

003 for 3K	100 for 100K	910 for 0.1 μ m
005 for 5K	300 for 300K	920 for 0.2 μ m
010 for 10K	500 for 500K	945 for 0.45 μ m
030 for 30K	750 for 750K	965 for 0.65 μ m
050 for 50K		

CONNECTIONS

Feed/Retentate

1.5" TC Standard Sanitary Fitting

Permeate

0.5" TC Standard Sanitary Fitting

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

MATERIALS OF CONSTRUCTION

The cartridge as assembled is USP Class VI compliant.

Membrane:

Modified Polyethersulfone (m-PES)

Housing:

White Polysulfone

Encapsulant:

Epoxy

SPECIFICATIONS

Cartridge Dimensions

1.32" (3.34 cm) x 41.50" (105.40 cm)

Membrane Surface Area

5.38 ft² (0.5 m²)

Molecular Weight Cut-off

3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 750K

Membrane Pore Size

0.1 μ m, 0.2 μ m and 0.45 μ m, 0.65 μ m

Fiber ID

0.5 mm, 1.0 mm, 2.0 mm

