

Discover™ 24 Green

Single Use Gamma Irradiated Hollow Fiber Cartridges

Easy and Reliable



The Discover™ Green hollow fiber membrane cartridges are the cartridges of choice for laboratory scale preparative protein and virus concentration/diafiltration, and cell clarification applications for volumes that range from 50 mL to 400 mL. The Discover™ 24 Green cartridges have a membrane surface area of 107 cm², providing an average permeate flow rate of 320-640 mL/hr for ultrafiltration applications and 210-430 mL/hr for microfiltration applications.

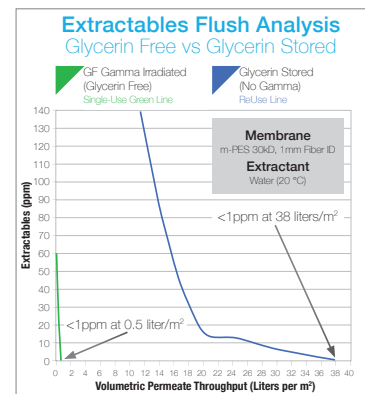
The Discover™ Green cartridges are gamma irradiated and ready to use, and incorporate WaterSep's low binding, antifouling, modified polyethersulfone membrane (m-PES), which provides high process flux and total capacity with short process times and nearly 100% product recovery.

The fluid path length for the Discover™ 24 Green cartridges is similar to all other WaterSep 24" (60 cm) hollow fiber cartridges making scale up very easy and predictable.

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

The Discover™ 24 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, providing maximum 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**.

Discover™24 Green

ORDERING INFORMATION

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

Discover™24 Green HF Cartridge

0.5 mm Fiber ID

SU XXX 05DIS24 L6, 6/pkg

SU XXX 05DIS24 LD, 12/pkg

1.0 mm Fiber ID

SU XXX 10DIS24 L6, 6/pkg

SU XXX 10DIS24 LD, 12/pkg

2.0 mm Fiber ID*

SU XXX 20DIS24 L6, 6/pkg

SU XXX 20DIS24 LD, 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

0.38" (0.95 cm) x 24.38" (61.93 cm)

Membrane Surface Area

0.115 ft² (107 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 V compliant.

Membrane

Modified Polyethersulfone (m-PES)

Housing

White Polysulfone

Encapsulant

Medical Grade Epoxy

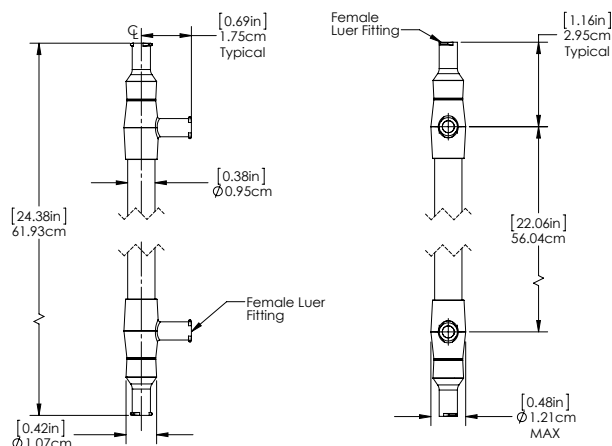
CONNECTIONS

Feed/Retentate

Female Luer Lok Fitting

Permeate

Female Luer Lok Fitting



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