

Acrodisc® Syringe Filters with GHP Membrane & GH Polypro (GHP) Membrane Disc Filters

The "universal" membrane filter for all of your analytical filtration requirements



- AutoPack™ packaging is easy to use and the Caliper** Automation Certification assures you of smooth operation and worry-free performance 24 hours a day in automated workstations.
- Avoid the expense and inconvenience of keeping a variety of filters on hand. Versatile filter for aqueous and aggressive organic solvent-based solutions.
- Low protein binding membrane gives high recovery of critical proteinaceous samples.
- Accurate analysis. HPLC certified for low levels of UV-absorbing extractables.
- Easy filtration of particulate-laden samples with glass fiber prefilter version.
- 13 mm Acrodisc syringe filter with minispikes configuration offers low hold up and easy filtration into autosampler vials.

Applications

- Highly recommended for filtering HPLC samples and mobile phases.
- The Acrodisc PSF GxP syringe filter provides two to four times the throughput of standard prefilter devices for extremely viscous samples.
- Acrodisc PSF syringe filter is available in robotic-compatible AutoPack™ packaging for Caliper* Prelude*, TPWII, and Multi-Dose* systems and Sotax* dissolution systems.

Specifications

Acrodisc Syringe Filters with GHP Membrane

Materials of Construction

Filter Media: GH Polypro (GHP) membrane (hydrophilic polypropylene)
Housing: Polypropylene
GxP Prefilter: Binder-free borosilicate glass

Pore Size

0.2 and 0.45 µm

Effective Filtration Area

13 mm: 1.0 cm²
25 mm PSF: 3.9 cm²

Sample Volume

13 mm: < 10 mL
25 mm PSF: < 150 mL

Inlet/Outlet Connections

13 mm: Female luer lock inlet, minispikes outlet
25 mm PSF: Female luer lock inlet, male slip luer outlet

Typical Hold-up Volume

(with air purge)
13 mm: < 14 µL
25 mm PSF: < 125 µL
25 mm PSF GxP: < 200 µL

Maximum Operating Temperature

55 °C (131 °F)

Maximum Operating Pressure

13 mm: 6.3 bar (630 kPa, 90 psi)
25 mm PSF: 4.1 bar (410 kPa, 60 psi) at 21 - 24 °C (70 - 75 °F); 2.1 bar (210 kPa, 30 psi) at 55 °C (131 °F)

Typical Water Flow Rate

mL/min at 0.7 bar (70 kPa, 10 psi)
13 mm, 0.2 µm: 17
13 mm, 0.45 µm: 28

mL/min at 2.1 bar (210 kPa, 30 psi)

25 mm PSF, 0.2 µm and GxP/0.2 µm: 175
25 mm PSF, 0.45 µm and GxP/0.45 µm: 195

GH Polypro (GHP) Membrane Disc Filters

Filter Media

Hydrophilic polypropylene

Pore Size

0.2 and 0.45 µm

Typical Thickness

0.2 µm: 101 µm (4.0 mils)
0.45 µm: 114 µm (4.5 mils)

Typical Water Flow Rate

mL/min/cm² at 0.7 bar (70 kPa, 10 psi)
0.2 µm: 20
0.45 µm: 31

Maximum Operating Temperature

55 °C (131 °F)

Minimum Bubble Point – Water

0.2 µm: 2.9 bar (290 kPa, 42 psi)
0.45 µm: 1.38 bar (138 kPa, 20 psi)

Chemical Compatibility

For detailed information about chemical compatibility by membrane type, see the Chemical Compatibility Chart on page 366 - 367.

**Caliper Life Sciences was previously Zymark Corporation.



Life Sciences

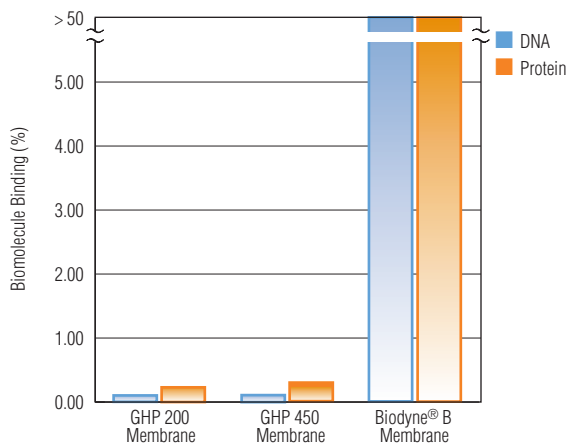


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Performance

GH Polypro (GHP) Membrane is Extremely Low in Biomolecule Binding



¹²⁵I-labeled BSA (1.6 µg) or ³²P-labeled DNA (500 ng) were diluted to 5 mL in PBS (BSA) or Tris-EDTA (DNA) and filtered through a 13 mm disc of the indicated membrane. Filtration was carried out using a 10 mL syringe at a flow rate of 1.0 mL/min.

Binding was determined by comparing the amount of radioactivity remaining in the membrane (triplicate) to the activity of the starting material by placing the disc or solution directly into scintillation cocktail and counting in a scintillation counter. Biodyne B membrane is designed for biomolecule binding and was used as a positive control.

Ordering Information

Acrodisc® Syringe Filters with GHP Membrane, 13 mm

Part Number	Description	Pkg
4554	0.2 µm, minispikes outlet	100/pkg 300/cs
4567	0.2 µm, minispikes outlet	1000/pkg
4556	0.45 µm, minispikes outlet	100/pkg 300/cs
4563	0.45 µm, minispikes outlet	1000/pkg

Acrodisc PSF Syringe Filters with GHP Membrane, 25 mm

Part Number	Description	Pkg
AP-4364	0.2 µm, AutoPack™ tubes	25/pkg 200/cs
AP-4564	0.2 µm	50/pkg 200/cs
AP-4566	0.2 µm	1000/pkg
AP-4357	0.45 µm, AutoPack tubes	25/pkg 200/cs
AP-4560	0.45 µm	50/pkg 200/cs
AP-4562	0.45 µm	1000/pkg

Acrodisc PSF GxP Syringe Filters with GHP Membrane, 25 mm

Part Number	Description	Pkg
AP-4305	GxP/0.2 µm, AutoPack tubes	25/pkg 200/cs
AP-4307	GxP/0.2 µm	50/pkg 200/cs
AP-4306	GxP/0.2 µm	1000/pkg
AP-4557	GxP/0.45 µm, AutoPack tubes	25/pkg 200/cs
AP-4559	GxP/0.45 µm	50/pkg 200/cs
AP-4558	GxP/0.45 µm	1000/pkg

GHP Membrane Disc Filters, 0.2 µm

Part Number	Description	Pkg
66557	47 mm	100/pkg
66628	50 mm	100/pkg

GHP Membrane Disc Filters, 0.45 µm

Part Number	Description	Pkg
66629	13 mm	100/pkg
66340	25 mm	100/pkg
66640	37 mm	100/pkg
66548	47 mm	100/pkg
66625	50 mm	100/pkg
66626	90 mm	100/pkg

