

Acro[®] 500 Filter Capsule with Supor[®] EKV Membrane & Polycarbonate Housing



Description

The Acro 500 filter capsule with Supor EKV membrane and polycarbonate housing offers a 500 cm² effective filtration area (EFA) for the sterile filtration of larger volumes of laboratory solutions. The capsule utilizes a membrane that features a built-in dual layer polyethersulfone (PES) construction which provides fast and efficient filtration.

The low protein and preservative binding properties of the membrane allow for maximum transmission of active ingredients as well as broad liquid compatibility, ideal for the filtration of a wide range of fluids including buffers, biological fluids, and tissue culture media.

With an outer housing made from polycarbonate, the improved optical clarity allows for easier venting of the capsule when in use to maximize membrane area and ultimately flow rate and throughput.

Specifications

Materials of Construction

Filter Media: Supor EKV membrane (hydrophilic polyethersulfone)
 Housing: Polycarbonate
 Filter Support: Polyester
 Core & Vent Plug: Polypropylene
 Sealing Technology: Polyurethane

Pore Size

0.65/0.2 µm

Effective Filtration Area

500 cm²

Dimensions

Overall Length: 13.3 cm (5.2 in.)
 Diameter: 6.0 cm (2.4 in.)

Inlet/Outlet Connections

Hose Barb fittings accept 12.7 mm (1/2 in.) ID tubing

Endotoxin Level

< 0.25 EU/mL utilizing Limulus Amebocyte Lysate (LAL) test

Minimum Water Flow Rate

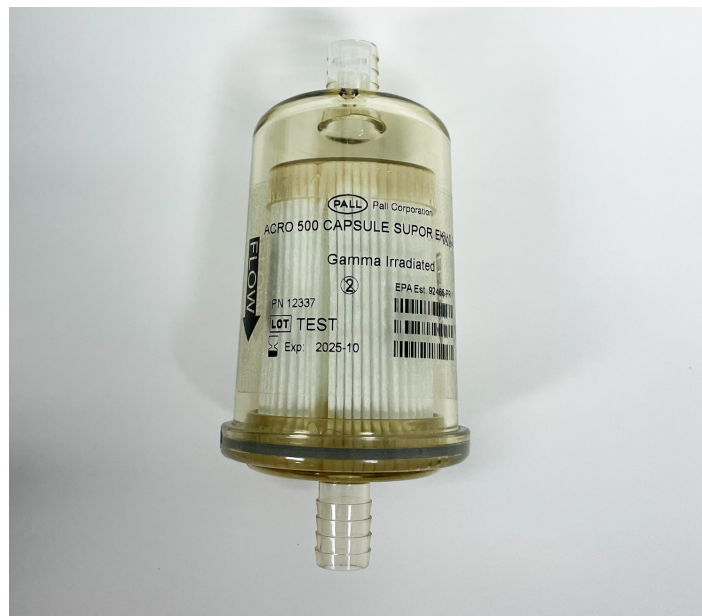
0.7 L/min at 0.1 bar (10 kPa, 1.5 psi)

Hold-up Volume (with Air Purge)

≤ 30 mL

Maximum Operating Pressure

3.4 bar (340 kPa, 50 psi) at ambient temperature



Maximum Operating Temperature

60 °C (140 °F) at 2.1 bar (210 kPa, 30 psi)

Recommended Integrity Test Minimum Bubble Point- IPA / Water (60/40 v/v)

1.2 bar (120 kPa, 17 psi)

Bacterial Retention

Lot samples retain a minimum 10⁷ cfu/cm² of *B. diminuta* per modified ASTM F838, current revision.

Sterilization

Sterilized by gamma irradiation and individually packed.
 Do NOT autoclave

Ordering Information

Part Number	Description	Pkg
12337	Acro 500 capsule with Supor EKV membrane 0.65/0.2 µm gamma irradiated hose barb in/out	1/Pkg

Related Products

Part Number	Description	Pkg
4227	Filing bell, sterile	5/pkg



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