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YOUR CULTURE DEPENDS ON IT.



Costar's new

Maxi 10

sterile filtration capsule

Costar's New **Maxi 10** and **Maxi 10^P** are pressure filtration capsules for the sterilization of media and aqueous solutions with a maximum volume up to 10 liters.

.22 μ m surfactant free cellulose acetate membrane provides sterile filtration with ultra low protein binding. In addition, the **Maxi 10^P** has a binder-free glass fiber pre-filter for easy filtration of media containing sera and difficult to filter solutions.

The unique self venting feature found on both the **Maxi 10** and **Maxi 10^P** prevents air from being trapped and ensures efficient filtration. The large 20 cm² membrane area provides for a fast-flow rate of 100 mL/min of water at 5 PSIG.

- Non-cytotoxic
- Non-pyrogenic
- Sterile, individually wrapped, 10 per case



costar®

Applications

0.2µm Maxi 10

Costar's Maxi 10 provides sterile filtration of aqueous solutions and removal of particulates and microorganisms larger than 0.2µm. It exhibits high flow rate of aqueous solutions and does not contain a pre-filter.

0.2 µm Maxi 10⁺ with Glass Prefilter

Costar's Maxi 10⁺ provides sterile filtration of media containing serum and removal of particulates and microorganisms larger than 0.2 µm. It contains a glass pre-filter for increased throughput and flow rate of serum or serum-containing media.

Note: The Maxi 10 and Maxi 10⁺ are for laboratory single-use only and are not suitable for filtration of liquids for in-vivo use.

Quality Control

Bacterial Retention

The effectiveness of the 0.2µm cellulose acetate membrane for sterilizing filtration is confirmed by bacteria challenge test (HIMA) with *Pseudomonas diminuta*. Finished units are also tested for housing and membrane integrity and sterilizing filtration.

Cytotoxicity Testing

All materials pass the USP plastics test for toxicity. Tests performed on both cellulose acetate membranes and glass fiber pre-filters with MRC-5 human lung cells showed no cytotoxic effects.

Specifications

	Maxi 10	Maxi 10 ⁺
Housing material:	Polycarbonate	Polycarbonate
Filter material:	SFCA*	SFCA*
Pore size:	0.2µm	0.2µm
Filter diameter:	62mm	62mm
Filtration area:	20cm ²	20cm ²
Pre-filter material:	none	Glass fiber, binder-free
Hold-up volume before bubble point:	1mL	1.5mL
Vent filter:	Hydrophobic PTFE	Hydrophobic PTFE
Connectors:	Graduated hose barbs	Graduated hose barbs
Flow direction:	Unidirectional	Unidirectional
Housing burst pressure:	>5 bar (72psi)	>5 bar (72psi)
Bubble point:	≥3.4 bar (49psi)	≥3.4 bar (49psi)
Maximum recommended inlet pressure:	3 bar (43psi)	3 bar (43psi)
Filtration range:	100mL-10L	100mL-10L
Typical flow rate for high purity water at 24°C, 5psi:	135mL/min.	102mL/min.

*Surfactant-free cellulose acetate

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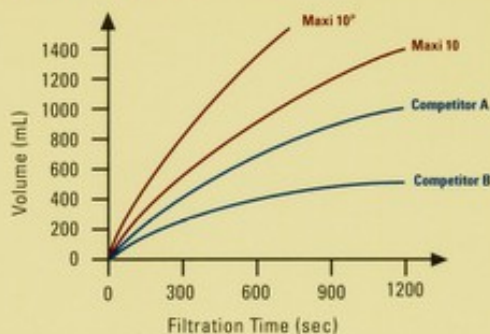
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Filtration Performance (MEM with 10% BCS)



Maxi 10⁺: 0.2µm SFCA with prefilter, 20cm² EFA
Maxi 10: 0.2µm SFCA, 20cm² EFA
Competitor A: 0.2µm PS, 15cm² EFA
Competitor B: 0.2µm PVDF, 10cm² EFA

Maxi 10 capsule combines a large filtration area (20cm²) with an optimal filter support design guaranteeing high flow rates with high total throughput.

The self venting feature ensures that the entire filter area is used for efficient filtration by releasing any trapped air through the PTFE membrane vent ports.

Ordering Information

Catalog#	Description
8001	Maxi 10, 0.2µm SFCA pressure filtration unit with filling bell, sterile, individually wrapped, 10/case
8002	Maxi 10 ⁺ , 0.2µm SFCA pressure filtration unit with a binder-free glass fiber pre-filter and filling bell, sterile, individually wrapped, 10/case
905400	Peristaltic pump, 115V, 60HZ Epoxy coated steel case Tubing: O.D. 0.390 inch I.D. 0.255 inch Speed: 6-600 mL/min. Rate: 1,680 mL/min.
905500	Peristaltic pump, 220V, 50HZ
903615	4 Liter pressure vessel, 316 stainless steel, electropolished, inside and out, Molded SRB rubber base* O-Ring - Viton® A *not autoclavable
903726	26 Liter pressure vessel, 316 stainless steel, electropolished, inside and out, Inlet/outlet connections 1/4" NPTF