AseptiCap KO
Polyethersulfone Membrane Capsule Filters

AseptiCap KO capsule filters incorporate a low protein binding PES membrane with polypropylene drainage layers to ensure pH compatibility from 1-14 making these ideal for alkaline fluid streams.

Material of Construction	
Membrane	Hydrophilic PES
Support Layers	Polypropylene
Body and Core	Polypropylene

Special Features

- Low protein binding
- High throughputs
- Low extractables
- Wide chemical compatibility
- Biologically Inert

Applications

For sterile filtration of alkaline fluid streams such as pH adjusters for microbial fermentation processes.

Microbially Validated as per ASTM F 838-05

Complies with USFDA 21 CFR 211.72

Meets and Exceeds USFDA 21 CFR 177.1520

Specifications

Pore Size Rating: 0.2 µm, 0.45 µm

Sterilization:

By Gas : Sterilizable by Ethylene Oxide

By Autoclave: Autoclavable at 121 °C for 30 minutes, 25 cycles. Can not be in-line steam sterilized

Maximum Differential Pressure:
60 psi (4 Kg/cm^2) @ 30 °C

Maximum Operating Temperature:
80 °C @ ≤ 30 psi (2 Kg/cm^2)

Typical Water Flow Rates (0.2 µm, 8")

7.5 lpm @ 0.70 Kg/cm^2 @ 27 °C

pH Compatibility

Compatible with pH range of 1-14

Integrity Testing / Retention		
Pore Size	0.2 µm	0.45 µm
Bubble Point (with Water)	≥ 50 psi (3.51 Kg/cm^2)	≥ 30 psi (2.11 Kg/cm^2)
Microbial Retention (LRV > 7 for)	Brevundimonas diminuta (ATCC 19146) per cm^2	Serratia marcescens (ATCC 14756) per cm^2

Assurance

Toxicity : Passes Bioreactivity test, In Vivo, as per USP <88> for Class VI plastics

Bioburden : Bioburden level is < 1000 cfu/filter device as per ANSI/AAMI/ISO 11737-1 : 1995

Bacterial Endotoxin : Aqueous extracts exhibit < 0.25 EU/ml as established by Limulus Amebocyte Lysate (LAL) Test

Non Fiber Releasing : Passes test as per USP and comply with USFDA 21 CFR Part 210.3 (b)(6) for fiber release

Extractables with WFI : Passes test as per USP

Oxidizable Substances : Within limits as specified in USP

Particle Shedding : Passes USP test for particulates in injectables

TOC/Conductivity at 25 °C : Meets the WFI requirements of USP <643> for Total Organic Carbon and USP <645>

for Water Conductivity after a specified volume of purified water flush

Indirect Food Additive : All Polypropylene components meet the FDA Indirect Food Additive requirements cited in 21 CFR 177.1520

Good Manufacturing Practice : These products are manufactured in a facility which adheres to Good Manufacturing Practices

Ordering Information

Type	
	Code
AseptiCap KO	DKLO

Size	
	Code
1"	51
2"	52
5"	53
8"	57

Pore Size	
	Code
0.2 µm	01
0.45 µm	02

Inlet/Outlet	
	Code
¼" SHB	A
½" Hose Barb	D
1½" Sanitary Flange	E
¾" Sanitary Flange	S
Quick Connector	J
Single Step ½" Hose Barb	Q

X

X

Sterility	
	Code
Non Sterile	1
EO Sterile	2

Pack Size	
	Code
1	01

Example:

DKLO	57	01	DD	X	X	1	01

Data Sheet

DSTDKLOXXX1303F

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