

**mdi** 0.1µm AseptiCap WS-y are low protein binding hydrophilic PVDF membrane capsule filters, validated to retain mycoplasma, a critical requirement for sterilization of mammalian cell culture media.

These capsules offer serial filtration incorporating a large pore size upstream membrane to protect the downstream membrane for enhanced throughput.

0.1µm AseptiCap WS-y capsule filters are validated to meet compendia and regulatory requirements and are well characterized. They meet key process requirements such as absolute retention efficiency, extremely low extractables, high throughputs, wide chemical compatibility and other important characteristics.

## Key features

- Absolute retention
- 100% integrity tested
- Low protein binding
- Low extractables
- Very low hold up volume in filters

## Applications

### Sterile Filtration of

- Cell culture media
- Growth regulators
- Small Volume Parenterals

## Ordering Information

Type	Code	Size		Pore Size	Code	Inlet /Outlet		Radiation Sterilizable		Inline/T-Line		Sterility		Pack Size	
		Length and EFA	Code			Code	Code	Code	Code	Code	Code	Code	Code		
AseptiCap WS (0.2µm upstream)	LWS1	5" (3000 cm <sup>2</sup> )	53	0.1µm	36	1½" Sanitary Flange	E	Yes	R	Inline	X	Non-Sterile	1	1	01
		10" (6000 cm <sup>2</sup> )	54			Single Step ½" Hose Barb	Q	No**	X	T-Line***	T	Gamma Sterile	3		
AseptiCap WS (0.45µm upstream)	LWSX	20" (12000 cm <sup>2</sup> )	55			¾" Sanitary Flange****	S	*1" Hose Barb is not available in 5" capsule filters **Gamma sterile capsule filters cannot be gamma irradiated again ***T-line Capsule Filter are available with 1½" Sanitary Flange I/O Connections only ****¾" Sanitary Flange is available only in 5" and 10" capsule filters Note: Size 5" is available in Inline Capsule filters only							
		30" (18000 cm <sup>2</sup> )	56	3/8" Hose Barb	I										
				1" Hose Barb*	Z										

EFA: Effective Filtration Area

Example

LWS1	54	36	QQ	R	X	1	01
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For Non-Sterile: LWS15436QQRX101

For Gamma Sterile: LWS15436QQXX301



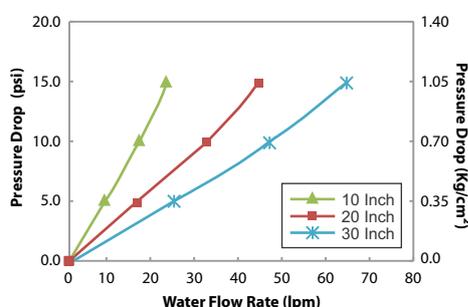
Microbiologically Validated as per ASTM F 838-05
Complies with USFDA 21 CFR 210.3(b)(6)
Meets and Exceeds USFDA 21 CFR 177.1520

## Specifications

### Materials of Construction

Membrane	Hydrophilic PVDF
Support Layer	Polyester
Plastic Components	Polypropylene

### Typical Water Flow Rates



### Microbial Retention

LRV >7 for *Acholeplasma laidlawii* (ATCC 23206) per cm<sup>2</sup>

### Maximum Operating Temperature

80 °C @ ≤30 psi (2 Kg/cm<sup>2</sup>)

### Maximum Differential Pressure

60 psi (4 Kg/cm<sup>2</sup>) @ 30 °C

### Bubble Point with 50% IPA

≥31psi

### Sterilization

**By Irradiation:** Gamma irradiatable up to 50 kGy

### Toxicity

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

### Cytotoxicity

Passes Biological Reactivity Tests, In Vitro, USP <87> for cytotoxicity

### Bacterial Endotoxin

Aqueous extracts exhibit < 0.25 EU/ml as established by Limulus Amebocyte Lysate (LAL) Test as per USP <85>

### Fiber Release

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

### Particle Release

The filtrate complies with USP <788> test for particulate matter in injections

### TOC and Conductivity

Meets the WFI requirements of USP for TOC <643> and Conductivity <645> after flushing with a specified volume of WFI

### Extractables with WFI

Passes NVR test as per USP <661>

### Oxidizable Substances

Passes test as per USP <1231>