

# AseptiSure HSR 0.1µm Polyethersulfone Membrane Mini Cartridge Filters

**mdi** Polyethersulfone (PES) membrane mini cartridge filters type AseptiSure HSR are designed to withstand high pressure differential upto 0.3 Kg/cm² (5 psi) at high steam sterilization temperatures of up to 135 °C.

These filters with Polyethersulfone membrane and Polypropylene support layers offer pH compatibility from 1 to 14, and are thus ideal for use with acidic as well as alkaline solutions.

mdi AseptiSure HSR Mini Cartridge validated filters are for kev parameters performance such as efficiency, retention chemical compatibility, extractables, heat stability and flow rates.

# **Special Features**

- · Low protein binding
- Non-toxic material of construction
- Multiple Autoclave
- · Heat sealed, no glues or adhesives
- Each filter comes with an individual certificate of quality
- Total Traceability: Unique identification number is laser etched on each filter

# **Application**

• Sterile filtration of culture media for mammalian cell culture

CHRX



Complies with USFDA 21 CFR 210.3(b)6)

Meets and Exceeds USFDA 21 CFR 177.1520

#### **Material of Construction**

Core and Sleeve: Polypropylene
Filter Membrane: Polyethersulfone
Support Layers: Polyester

Integrity Test Data for 0.1µm Rated Cartridge

Bubble Point	≥ 31 psi
(50% IPA)	(2.18 Kg/cm²)
Air Diffusion Flow	≤ 15ml/min @50psi
5" Cartridge	(3.51 kg/cm²)
(Water wetted)	

# Water Flow Rate (Typical) for Cartrdige Filters

Size	Flow Rate
2.5"	4.5 lpm @ 10 psi
5"	8 lpm @ 10 psi

# **Specifications**

#### Pore Size Rating

0.1 µm

#### **Microbial Retention:**

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

#### Sterilization

 25 Autoclave/In-line steam sterilization cycles at 135°C for 30 min., Δp=5 psi (0.3kg/cm²)

#### **Maximum Differential Pressure**

50 psi (3.5Kg/cm<sup>2</sup> @ 25°C

# **Maximum Operating Temperature**

 $80^{\circ}$ C @  $\leq 30$ psi (2Kg/cm<sup>2</sup>)

### **Reverse Pressure**

≤ 10 psi (0.7Kg/cm²) @ 25°C

### **Bacterial Endotoxin**

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

# **Biosafety**

- Passes the Biological Reactivity tests for Class VI plastics as per USP <88>
- Passes the Biological Reactivity Tests, In Vitro for Cytotoxicity as described in USP <87>

# Oxidizable Matter

Passes test as per USP <1231>

#### **Fiber Release**

Complies with USFDA CFR Title 21, 210.3(b)(6).

# Particle Release

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

# TOC (Total Organic Carbon)

Meets the WFI requirements of USP <643> for Total Organic Carbon after a 3 liter WFI flush.

# Conductivity

SS

Meets the WFI requirements of USP <645> for Conductivity after a 3 liter WFI flush.

# **Ordering Information**

**EXAMPLE** 

Туре		Size		Pore Size		Adapter		Elastomer		Sterility		Pack Size	
	Code	Length & EFA	Code		Code		Code		Code		Code		Code
AseptiSure HSR (0.2µm upstream)	CHR1	2.5" (1000 cm <sup>2</sup> )	50	0.1 µm	36	4463	E0	Silicone	SS	Non	4	1	01
AseptiSure HSR (0.45µm upstream)	CHRX	5" (2000 cm <sup>2</sup> )	53			4463B	но			Sterile	1		
						4440	UO	*GO adapter code is not available with any elastomer. Please mention XX in place of elastomer code while ordering					
						Seal-K	G0*						
						Seal-0	F0**						wille
						Seal-M	1 30	**Adapter code F0 is available only in 5" cartridge filters					

DST CHRX36M1739C