Pegasus™ SV4

VIRUS REMOVAL FILTER MEMBRANES
WITH MINIDISC CAPSULES

For virus removal and small-scale membrane qualification studies

Pegasus™ SV4 virus removal filters combine robust, high viral clearance of parvovirus and larger viruses with high throughput capacity and stable flow rates in both dilute and complex, concentrated biological fluids. Consistent flow rate and throughput performance provide control of process costs and maximize virus filtration economy and efficiency.

Minidisc capsules with Pegasus SV4 virus removal filter membrane are purpose-designed for small-scale membrane qualification studies such as bacteriophage or prion transmissible spongiform encephalopathy agents [TSE] clearance, as well as membrane flow rate, capacity and protein transmission studies. They are manufacturing tested and manufactured under a quality management system certified to ISO 9001:2008 in order to assure consistent high quality.

Features	Benefits
Fully disposable capsule with luer lock connections	Easy handling, ready to use
Pegasus SV4 virus removal filter membrane	Robust, high > 4 LRV parvovirus virus clearance
Constant flow and high-throughput performance	Optimize virus filter process economy and efficiency
Identical membrane to larger production scale Pegasus SV4 virus filter cartridges	Offers reliable scalability
Individual capsules identified by lot and serial number	Easy identification of individual capsules with complete traceability of manufacturing history
Manufacturing assembly tested	Assurance of consistently high quality
Membrane bacteriophage tested	Assurance of consistently high quality
Pre- and post-use installation testable	Assurance of consistently high quality at point of use
Low protein-binding	High protein recovery
Robust membrane with high viral clearance	Flow decay reduced at high virus-spike concentrations and with complex or concentrated feeds

Fig 1. Minidisc capsules with Pegasus SV4 virus removal filter membrane.

High quality standards

- Meets the current USP requirements under section <85> bacterial endotoxins test.

Materials

- Filter fluid path components have met the specifications under section <88> Biological Reactivity Tests *in vivo* listed in the current revision of the United States Pharmacopeia (USP) for Class VI plastics at 121°C.

Technical specifications

Item	Materials of construction
Membrane	Hydrophilic modified polyvinylidene fluoride (PVDF)
Support disc	Polypropylene (non-woven)
O-ring	Ethylene propylene diene monomer (EPDM)
Capsule inlet and outlet	Polycarbonate

Pore size (nominal)
20 nm

Retention ratings (virus)	
Bacteriophage PP7	> 4 log T_R [1,2]
Bacteriophage PR772	> 6 log T_R [3]

[1] Claims based on challenge with parvovirus model bacteriophage (bacterial virus) PP7
[2] > 4 LRV for PP7 bacteriophage per parenteral drug association (PDA) TR 41 rating method for small virus-retentive filters. > 4 LRV typically with mammalian parvoviruses
[3] Claims based on challenge with retrovirus model bacteriophage (bacterial virus) PR772

Effective surface area
9.6 cm^2 (1.49 $in.^2$)

Operating parameters [4]	
Maximum temperature	25°C
Maximum operating pressure	3.1 barg (45 psig, 0.31 MPa)
Maximum differential pressure	3.1 barg (45 psig, 0.31 MPa)

[4] Using compatible liquids. Maximum air and gas pressure for installation test 3.4 bar g (50 psi, 0.34 MPa).

Ordering information

Product	Product code
Minidisc capsules with Pegasus SV4 virus removal filter membrane [5]	10MCFSV4

[5] Three capsules per box

Further equipment recommended for laboratory testing

Pressure vessels (disposable)	Product code
Novasip™ vessel	C3EP1

Accessories (Novasip vessel)	Product code
Adapter 1 in. TC/male Stäubli™ connector plug (3 mm) R ¼ in.	GFX0290
TC clamp + silicone gasket	SLK1TC23H4

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