

# Pegasus™ SV4

## VIRUS REMOVAL MEMBRANE IN MINI KLEENPAK™ CAPSULE FILTERABILITY TOOL

With the ever-present risk of virus contamination in biological products, potential sources of virus contamination of biotechnology products include viruses associated with cell lines (endogenous viruses), or viruses introduced into the cell line or product from culture medium or during the production process (adventitious viruses). Viruses could also potentially be present in donations for plasma derivatives. The Mini Kleenpak™ capsule filterability tool with Pegasus™ SV4 virus removal filter membrane is designed for quick and efficient filter sizing studies using small fluid volumes either following, or instead of, bench-scale flat-disc trials. Studies performed using this filter predict filtration area requirements of Pegasus SV4 membrane in larger, AB-style filter cartridges or Kleenpak Nova filter capsules. These full-process-scale formats utilize a laid-over-pleat membrane construction to maximize available filtration area per filter element (2.25 m<sup>2</sup> per 254 mm [10 in.] module). For more information, please consult the relevant product data files on Pegasus SV4 virus removal filter cartridges, and on Kleenpak Nova filter capsules with Pegasus SV4 virus removal filter membrane.



**Fig 1.** Pegasus SV4 virus removal membrane in Mini Kleenpak capsule filterability tool.

### System benefits

- Precise scale-up<sup>1</sup>: Enables reliable, accurate scaling of flow rate and filter throughput; helps maximize oversizing of large-scale virus filtration
- Reliable down-scaling: Large-scale filter operating conditions can be applied, enabling consistently high quality
- Small fill volume: Economical; reduces amount of fluid required
- 100% quality-tested: Enables consistent performance

<sup>(1)</sup> Mini Kleenpak capsule filterability tools are for filter-sizing studies and evaluation during process development only. They are not qualified for virus removal. Cytiva provides filters for use during drug manufacture or for animal, human therapeutic or diagnostic needs. Please contact us for details of these filters where needed as Mini Kleenpak capsule filterability tools are not intended for these purposes.

## Technical specifications

Item	Materials of construction
Filter membrane	Hydrophilic modified polyvinylidene fluoride (PVDF)
Support/drainage	Polyester
Capsule shell, core and endcaps	Polypropylene (PP)
Sealing technology	Thermal bonding without adhesives

### Operating parameters <sup>(2)</sup>

Maximum operating temperature	38°C
Maximum operating pressure	4.1 barg <sup>(3)</sup>
Recommended operating differential pressure	2.1 to 3.1 barg <sup>(3)</sup>

<sup>(2)</sup> In compatible fluids which do not soften, swell or adversely affect the filter or its materials of construction

<sup>(3)</sup> 1 bar = 14.5 psi = 0.1 MPa

### Dimensions (nominal)

Maximum diameter including valves	53 mm (2.1 in.)
Length	105 mm (4.1 in.)

### Effective filtration area (EFA) (nominal)

580 cm<sup>2</sup> (0.62 ft<sup>2</sup>)

## Ordering information

Item	Product code
Mini Kleenpak capsule filterability tool with Pegasus SV4 virus removal filter membrane, ¼ to ½ in. (6 to 13 mm) hosebarb connection, supplied non-sterile	KA02SV42FT

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