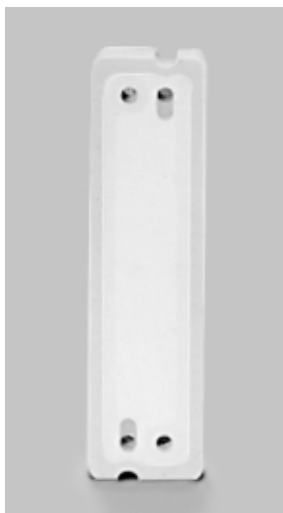




# PESU-Max Sartococon Cassette



Sartococon Cassette  
302146AL07K--SG



Sartococon Slice Cassette  
305146AL01K--SG

### Application

The PESU-Max cassette, is designed for use in the blood market.

### Validation

All materials have passed the current USP Class VI Plastics Test. The filtrate meets or exceeds USP and EP requirements for Sterile Water for Injection with respect to total solids, oxidizable substances, particulate matter, ammonia, chloride, nitrate, sulfate and heavy metals. It complies with cGMP requirements for non-fiber-releasing filters and is filed under the Drug Master File Number DMF 5967 by the Food and Drug Administration, Washington, DC. Information on validation is available upon request.

### Quality Control

Each filter cassette is individually serialized, integrity tested and certified.

If you have holding devices from other suppliers, please contact our Applications Department. Changes in the torque might be needed due to the specific variance in design.

For further assistance, contact your local Sartorius field engineer or our Goettingen-based Applications Department.

| Features                        | Benefits  |
|---------------------------------|---|
| Low adsorption                  | Minimal loss of proteins  |
| Low protein binding             | High product yield  |
| Wide pH and temperature range   | A wide variety of chemicals can be used for the removal of foulants |
| High flow rates                 | Faster, more economical filtration runs                             |
| Self-sealing cassette           | No gaskets needed   |
| Silicone sealing compound       | No glue   |
| Enlarged inlet and outlet ports | Lower pressure drop   |

## Technical Specifications

|  |  |
|--|--|
| Membrane material                              | Polysulfone  |
| Cutoff   | Albumin rejection >99.99 %   |
| Filter area                                    | 0.7 m <sup>2</sup>   |
| Inlet pressure P <sub>in</sub>                 | 4 bar (58 psi) maximum   |
| Operating temperature                          | 50°C maximum   |
| pH stability                                   | 1–14   |
| Air diffusion rates at P <sub>in</sub> = 2 bar | 50 ml air/min  |
| Recommended torque                             | 80 Nm (700 lbf.in.) max. for a Sartorius holding device with 2 screws  |
| Cleaning                                       | P3 Ultrasil 53TM, 1.5%, 50°C, 60 min, pH 8<br>P3 Ultrasil 11 (1%), 50°C, 30 min, pH 13<br>Sodium hydroxide, 1M, 40°C, 60 min |
| Disinfection                                   | NaOH, 1M, 40–50°C, 30 min  |
| Storage  | NaOH, 0.1M   |

### An Example of Flux Rates for Water

|   |                    |                    |
|---|--------------------|--------------------|
| (P <sub>in</sub> = 2.0 bar, P <sub>out</sub> = 0.5 bar) |                    |                    |
| Permeate  | 0.7 m <sup>2</sup> | 0.1 m <sup>2</sup> |
| approx. 350 l/hm <sup>2</sup>                           | 250                | 50                 |

### Retention Coefficient

|         |           |
|---------|-----------|
| Marker  | Retention |
| Albumin | >99.99%   |

### Available Types and Order Numbers

|                          |                    |                 |
|--------------------------|--------------------|-----------------|
| Type                     | Filter area        | Order No.       |
| Sartocon cassettes       | 0.7 m <sup>2</sup> | 302146AL07K--SG |
| Sartocon Slice cassettes | 0.1 m <sup>2</sup> | 305146AL01K--SG |

### Materials of Construction

|                  |               |
|------------------|---------------|
| Membrane         | Polysulfone   |
| Gaskets          | PVDF          |
| Spacer           | Polypropylene |
| Sealing compound | Silicone      |

Sartorius AG  
Weender Landstrasse 94–108  
37075 Goettingen, Germany

Phone +49.551.308.0  
Fax +49.551.308.3289

www.sartorius.com

USA +1.631.2544274  
UK +44.1372.737100  
France +33.1.69192100  
Italy +39.055.634041  
Spain +34.91.3586100  
Japan +81.3.33293366

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