DISPOSABLE PES MEMBRANE SYRINGE FILTER

DISMIC

25SS020RS/25SS045RS

Ideal for a wide range of life science and pharmaceutical applications.

Advantec Toyo Kaisha, Ltd.
Advantec MFS, Inc
**FEATURES**

- **Pre-sterilized by Gamma Irradiation**
  Eliminates potential contamination by Ethylene oxide residuals. Suitable for sensitive solutions such as tissue culture media.

- **Low protein binding & extractables**
  Maximize recovery of proteins and critical drugs. Ideal for pharmaceutical and biological applications where sample recovery and low extractables are essential.

- **High filtration volume**
  Superior flow rate and throughput compared to other conventional membranes. The asymmetrical pore structure lends itself to the filtration of high-contaminant or viscous liquids.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Filter Material</th>
<th>Pore Size (µm)</th>
<th>Membrane Material</th>
<th>Housing Material</th>
<th>Effective Filtration Area (cm²)</th>
<th>Max. Operating Pressure (MPa)</th>
<th>Max. Operating Temperature (℃)</th>
<th>Hold-up Volume (mL)</th>
<th>Connections</th>
<th>Applicable Liquid</th>
<th>Sterile</th>
<th>Quantity per Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>25SS020RS</td>
<td>0.20</td>
<td>Polyethersulfone (PES)</td>
<td>Acrylic</td>
<td>4.0</td>
<td>0.51</td>
<td>45</td>
<td>≤0.1</td>
<td>Inlet: Female luer-lock</td>
<td>Aqueous Liquid</td>
<td>Pre-Sterilized (γ ray-sterilized)</td>
<td>50</td>
</tr>
<tr>
<td>25SS045RS</td>
<td>0.45</td>
<td>Polyethersulfone (PES)</td>
<td>Acrylic</td>
<td>3.0</td>
<td>0.51</td>
<td>45</td>
<td>0.1</td>
<td>Outlet: Male luer slip</td>
<td>Aqueous Liquid</td>
<td>Pre-Sterilized (γ ray-sterilized)</td>
<td>50</td>
</tr>
</tbody>
</table>

**Comparison of Protein Binding**

<table>
<thead>
<tr>
<th>Membrane Filter Material</th>
<th>Protein Binding (µg/filter unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BSA</td>
</tr>
<tr>
<td>25SS020RS Polyethersulfone (PES)</td>
<td>5</td>
</tr>
<tr>
<td>25SS045RS Mixed Cellulose Esters (MCE)</td>
<td>90</td>
</tr>
</tbody>
</table>

Protein Binding is determined by the difference of the protein concentration in the sample solution before and after filtration.

- Initial Protein Concentration : 150µg
- Filtration Pressure : 0.03MPa
- Analyzer : HPLC

**Comparison of Throughput**

- Pore size: 0.20µm
- Pore size: 0.45µm

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**NOTE:** Specifications are subject to change without notice.