Hollow Fiber Ultrafilter 611CDU5

Description
Disposable, self-contained, hollow fiber ultrafilter designed for arium® 611 Laboratory Water Systems. High flow rate, low extractable ultrafilter suitable for laboratory use.

Applications
Removal of bacterial endotoxins, bacteria and particles from ultrapure water with a resistivity of up to 18.2 megohms × cm at 25°C.

Quality
The filters are designed and manufactured in a quality management system in compliance with DIN EN ISO 9001/DIN EN 46 001 and the FDA Quality System Regulation, 21 CFR Part 820. 100% integrity tested prior to release.

Bacterial and Endotoxin Retention
Bacteria: Brevundimonas diminuta ATCC 19146 19146 in saline lactose broth. Cell diameter approx. 0.3 mm 7-10 LRV* Endotoxin: E. coli O55:B5 endotoxin (Whittaker, USA) > 3.5 LRV* Natural endotoxins: Endotoxins in water from various sources > 3.0 LRV* * LRV = Logarithmic reduction value; LRV = log_{10} \frac{\text{Number of organisms in challenge suspension}}{\text{Number of organisms in filtration}}

Performance
<table>
<thead>
<tr>
<th>Filtration flow $Q_f$ (ml/min)</th>
<th>Pressure drop $\Delta p$ (mmHg) Solution 21°C</th>
<th>Solution 37°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>43 – 64</td>
<td>29 – 43</td>
</tr>
<tr>
<td>500</td>
<td>71 – 107</td>
<td>48 – 71</td>
</tr>
<tr>
<td>700</td>
<td>100 – 150</td>
<td>67 – 100</td>
</tr>
</tbody>
</table>

Determined with 0.9 % sodium chloride solution. Pressure drop $\Delta p$ is measured between fluid inlet and filtrate outlet.

Materials
Membrane Polysulfone
Potting material Polyurethane (PUR)
Housing, caps Polycarbonate (PC)
Plugs Polypropylene (PP)

Effective membrane area
2.1 m²

Connectors Inlet | Outlet
Acc. to EN 1283

Maximum Transmembrane Pressure (TMP)
0.8 bar at 0°C. Maximum operating pressure up to 3 bar (45 psi) at room temperature.

Sanitization
200 ppm sodium hypochlorite, 45 min. Frequency: not more than once a week.

Priming volume
Lumen 152 ml
Filtrate side 306 ml

Fiber dimensions
Inner diameter 215 µm
Wall thickness 50 µm
Molecular Weight 5.000
Cut off (MWCO)

Order information
Order code 611CDU5
Weight 0.24 kg
Quantity per package 1 unit