Indications
EVACLIO™ can be applied to diseases that are suggested to be caused by proteins whose molecular weight is comparable to or less than albumin.
- Hepatic Failure
- Sepsis
- Myonecrotic Metabolic Syndrome (MNMS)
- Rhabdomyolysis
- Multiple Myeloma (Bence-Jones Type)
- Some Cases of Focal Segmental Glomerular Sclerosis (FSGS)

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>1.0m²</th>
<th>EC-1C10</th>
<th>EC-2C10</th>
<th>EC-3C10</th>
<th>EC-4C10</th>
<th>2.0m²</th>
<th>EC-1C20</th>
<th>EC-2C20</th>
<th>EC-3C20</th>
<th>EC-4C20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollow fiber</td>
<td>Material</td>
<td>Ethylene vinyl alcohol copolymer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inner diameter (µm)</td>
<td>175</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wall thickness (µm)</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>Material</td>
<td>Polycarbonate resin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Membrane surface area (m²)</td>
<td>1.0</td>
<td>2.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outer dimension (mm)</td>
<td>45.4 x 280L</td>
<td>57.6 x 280L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Priming volume (mL)</td>
<td></td>
<td>Approx. 82</td>
<td></td>
<td></td>
<td></td>
<td>Approx. 150</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filled liquid</td>
<td>Sterile water</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sterilization method</td>
<td>Gamma-ray irradiation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note:
- Please read instructions carefully when using this product.
- All data presented were based on actual measurements performed by Kawasumi Medication, and manufactuer assumes no liability for losses resulting from the use of or misuse of this information.
- "EVACLIO™ is a registered trademark of KAWASUMI LABORATORIES, INC.

Distributed by

Manufacturer:
KAWASUMI LABORATORIES, INC.
Head Office: Shinagawa Kintaro Lofts Bldg., Shinagawa, Tokyo, 141-0028, Japan
Main Factory: 1-1-1, Tachibana, Miho, Shizuoka, 417-1131, Japan

EC-Regulatory Representative
MPS Medical Product Service GmbH.
Burggasse 28, 64419 Braunschweig, Germany

KJE-EC-1636-01-FF
Pore Size of EVACLIO™

There are four models of Evaclio™s with different pore size distribution: EC-1C, EC-2C, EC-3C, and EC-4C. The appropriate model can be selected depending on what kinds of substances should be removed. Pores of all these models are significantly small in size compared to those of the conventional plasma separators.

![Comparison of Albumin Rejection among Four Models of EVACLIO™](image)

Smaller Loss of High-molecular-weight Substances

Smaller pore size of the EVACLIO™ membrane results in smaller loss of high-molecular-weight substances such as albumin, immunoglobulins, and coagulation proteins.

![Rejection of Various Proteins](image)

Plasma Substitute Fluid Saving

Since the EVACLIO™ can reduce the loss of albumin during plasma exchange treatment, it is possible to save the supply of albumin as substitute fluid.

![Example of Substitute Albumin Amount Needed During PE Treatment](image)

High-volume Selective Plasma Exchange

Due to the smaller loss of albumin, substitute albumin to be supplemented per unit amount of exchanged plasma can be reduced. As a result, it may become possible to treat more plasma if the same amount of substitute albumin is supplemented as in the case that a conventional plasma separator is used. (The average amount of plasma treated in PE using a conventional plasma separator is between 3 and 4 liters.)

![Theoretical Removal Rate of the Substance whose Molecular Weight is around 20,000 Daltons](image)

Characteristics of a Hollow Fiber Membrane Material, EVOH(EVAL™)

1) Excellent Antithrombogenicity

It is reported that a EVACLIO™ membrane material, ethylene vinyl alcohol copolymer (EVOH), shows excellent antithrombogenicity. (Naito H., Jpn J Artif Organs 1987;16(2):763)

![Effects on the Coagulation System — Comparison among Various Dialyzers](image)

2) Smaller Performance Change with Time

Filtration performance of EVACLIO™ is relatively stable throughout the treatment.