Sealing Foil F-RSMF32-1
Gas permeable sealing foil with evaporation reduction and perforated silicone layer for BioLector® Pro, for use with the Foil Applicator

Technical parameters

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
</table>
| Type          | › Three layer sandwich membrane
› 2 rows with 4 mm holes to apply pressure
› 4 rows with 3 mm venting holes to reduce cross section for evaporation (see art. no. F-GPR48-10)
› Top layer: silicone mat thickness 2 mm, including pressure application and venting holes and pre-cut slits for automated or manual sampling/dosing
› Bottom layer: non gas permeable bonding sheet including venting holes
› Separate layer: gas permeable non-woven membrane (see art. no. F-GP10), to be applied manually
› Self resealing pre-cut slits for penetration by syringe (manual) or robotic tips (automated)
› Recommended for long-term cultivations
› Only suitable for 48 well microfluidic microplates
› Only suitable for foil application with the Foil Applicator, for manual foil application see counterpart, art. no. F-GPRSMF32-1 |
| Dimension     | › Length: 116.0 mm
› Width: 81.0 mm |
| Sterilization | › 20 kGy (β-radiation)
› sterile packed |
| Other information | › Autoclavability: no
› For single use only
› Unit size: 1 x 2 pcs. in sterilized bag (contains 1 x F-GP and 1 x silicone mat)
› Medical grade adhesive
› Temperature range: -20 – 80 °C |

Technical data: Performance

<table>
<thead>
<tr>
<th>Evaporation rate ( ^\circ )</th>
<th>Atmosphere (Air)</th>
<th>Shaking conditions</th>
</tr>
</thead>
</table>
| 1.3 ± 0.2 %/d \( ^\circ \) | Humidified \((> 85 \% \text{ rel. hum.})\) | BioLector®
\( n_0 = 1100 \text{ rpm} \)
\( d_0 = 3 \text{ mm} \) |
| 6.0 ± 0.1 %/d \( ^\circ \) | Not humidified \((\approx 35 \% \text{ rel. hum.})\) | BioLector®
\( n_0 = 1100 \text{ rpm} \)
\( d_0 = 3 \text{ mm} \) |
| 5.4 ± 0.2 %/d \( ^\circ \) | Not humidified \((\approx 35 \% \text{ rel. hum.})\) | Shaking incubator
\( n_0 = 250 \text{ rpm} \)
\( d_0 = 25 \text{ mm} \) |

Top view Dimensions for automation [mm]

Also available specialized sealing foils

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-GP-10</td>
<td>For short term cultiva-tions, suitable for all types of microplates.</td>
</tr>
<tr>
<td>F-GPR48-10</td>
<td>Recommended for long term cultivations with minimized evaporation.</td>
</tr>
<tr>
<td>F-RS48-10</td>
<td>For automated long term cultivations with minimized evaporation.</td>
</tr>
</tbody>
</table>

INFORMATION contained in this document or drawing is proprietary to m2p-labs GmbH. This document may not be reproduced in the whole or in parts for any reason without written permission from m2p-labs GmbH. All rights of design, invention and copyright are reserved.