BioR Blood Filters
LEUKOCYTE DEPLETION FILTERS
FOR RED CELL CONCENTRATES

FRESENIUS
KABI
caring for life
BioR Blood Filters
Leukocyte depletion filters for red cell concentrates

BioR product range guarantees high filtration efficiency and performance, excellent recovery, user friendliness and time saving.

They are available as blood bank or bedside use filters in a wide variety of different configurations.

**BioR 01 plus / max**

Filter made by non woven material. Rigid, transparent housing, with printed batch number. Gamma rays sterilization. 3 years shelf life from date of manufacture.

**Specifications**

- Filtration capacity: 1 unit of red cell concentrates
- Filtration efficiency:
  - consistently averaging less than $0.1 \times 10^6$ residual leukocytes (01 plus)
  - consistently averaging less than $0.5 \times 10^6$ residual leukocytes (01 max)
- Red blood cell recovery: averaging 88% *
- Filter housing hold-up volume: 33 ml *
- Filtration time: consistently less than 10 min (blood bank use)
- No priming with saline required
- Draining valves with integrated air filters (auto-venting) allow additional emptying of the filter housing and tubing to maximise the recovery of hemoglobin
- 200 μm prefilter for microaggregate removal
- Latex free

<table>
<thead>
<tr>
<th>BioR 01 plus / max</th>
<th>PRE Volume (ml)</th>
<th>POST Volume (ml)</th>
<th>Htc (%)</th>
<th>Hb Recovery (%)</th>
<th>PRE WBC (x 10^6/unit)</th>
<th>POST WBC (x 10^6/unit)</th>
<th>Filtration Time (mm:ss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>282</td>
<td>250</td>
<td>61,1</td>
<td>88</td>
<td>4,0</td>
<td>3,5</td>
<td>08:12</td>
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<tr>
<td>Std. Dev.</td>
<td>20,2</td>
<td>20,1</td>
<td>3,6</td>
<td>2,1</td>
<td>4,19</td>
<td>2,20</td>
<td>01:58</td>
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<tr>
<td>Min</td>
<td>203</td>
<td>175</td>
<td>50,0</td>
<td>83</td>
<td>0,3</td>
<td>1,8</td>
<td>04:26</td>
</tr>
<tr>
<td>Max</td>
<td>344</td>
<td>314</td>
<td>69,0</td>
<td>96</td>
<td>26,3</td>
<td>15,3</td>
<td>14:17</td>
</tr>
</tbody>
</table>

* Data from Center 1 (Italy, 2010): BC-depleted RCC units, stored in SAG-M at +4±2°C for 2-40 days; residual WBCs counting by Nageotte chamber.
BioR 02 plus

Filter made by non woven material. Rigid, transparent housing, with printed batch number. Gamma rays sterilization. 3 years shelf life from date of manufacture.

Specifications
- Filtration capacity: 2 units of red cell concentrates
- Filtration efficiency: consistently averaging less than 0.2 x 10^6 residual leukocytes
- Red blood cell recovery: averaging > 90% *
- Filter housing hold-up volume: 50 ml *
- Filtration time: consistently less than 20 min (for both units, blood bank use)
- No priming with saline required
- Draining valves with integrated air filters (auto-venting) allow additional emptying of the filter housing and tubing to maximise the recovery of hemoglobin
- 200 μm prefilter for microaggregate removal
- Latex free

BioR 01 max

<table>
<thead>
<tr>
<th></th>
<th>PRE Volume (ml)</th>
<th>POST Volume (ml)</th>
<th>Htc (%)</th>
<th>Hb Recovery (%)</th>
<th>PRE WBC (x 10^8/unit)</th>
<th>POST WBC (x 10^8/unit)</th>
<th>Filtration Time (mm:ss)</th>
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</thead>
<tbody>
<tr>
<td>Mean</td>
<td>281</td>
<td>249</td>
<td>60,7</td>
<td>88</td>
<td>3,5</td>
<td>3,4</td>
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<td>Stand. Dev.</td>
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<td>19,3</td>
<td>3,4</td>
<td>2,2</td>
<td>3,67</td>
<td>2,55</td>
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<tr>
<td>Min</td>
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<td>201</td>
<td>50,1</td>
<td>83</td>
<td>0,2</td>
<td>2,0</td>
<td>05:10</td>
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<tr>
<td>Max</td>
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<td>317</td>
<td>69,2</td>
<td>92</td>
<td>22,8</td>
<td>18,5</td>
<td>14:50</td>
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</table>

* after use of auto-venting valves

Filter Design

The computer generated filter housing provides optimal flow characteristics.

The batch number printed on each filter enables backtracking and follow-up quality control. For optimal priming, wetting and filling of the filter the configuration is assembled in an upside down position. In case of emergencies blood can be filtered with a maximum pressure of 300 mm Hg or 0.4 bar.

Unique features of BioR

Filtering material¹
- Melt-blown non-woven polyester fibre
- Non ionic coated fibre surface
- Neither positively nor negatively charged
- Excellent wetting characteristic
- High biocompatibility


Data from Center 1 (Italy, 2010): BC-depleted RCC units, stored in SAG-M at +4±2°C for 2-40 days; residual WBCs counting by Nageotte chamber.
Ordering information
For more information such as technical details and manuals, please contact your local sales representative or us.

BioR 01 plus

<table>
<thead>
<tr>
<th>Article code</th>
<th>Product name</th>
<th>Storage bag</th>
<th>Packaging</th>
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<tbody>
<tr>
<td>9009701</td>
<td>BioR 01 plus BS PF</td>
<td>-</td>
<td>40 units/box</td>
</tr>
<tr>
<td>9009711</td>
<td>BioR 01 plus BBS PF</td>
<td>DEHP plasticized PVC</td>
<td>40 units/box</td>
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BioR 02 plus

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<td>40 units/box</td>
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<tr>
<td>9094411</td>
<td>BioR 02 plus BBS PF</td>
<td>DEHP plasticized PVC</td>
<td>40 units/box</td>
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BioR 01 max

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<th>Article code</th>
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<tbody>
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<td>BioR 01 max BBS</td>
<td>DEHP plasticized PVC</td>
<td>40 units/box</td>
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A variety of other configurations is available.

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