Handling and Storage

Upon receipt, immediately transfer cryovial to liquid nitrogen storage.

Preparing Cell Culture Surfaces

For best results, use ultra-low attachment (ULA) vessels. Alternatively, cell culture vessels can be coated with poly(2-hydroxyethyl methacrylate) (poly-HEMA). Contact Technical Support for additional preparation methods.

Preparing the Medium

1. Select the appropriate HPC culture medium (see Table 1 for options).
2. Prepare the HPC culture medium according to the manufacturer’s recommendations.
3. Add hematopoietic cytokines and growth factors as required for intended use.
4. Filter the culture medium using a 0.2 µm PES filter unit.
5. Store the HPC culture medium according to the manufacturer’s recommendations.

Thawing the Cells

1. Equilibrate HPC culture medium to room temperature for at least 1 hour.
2. Thaw the cryovial in a 37°C water bath for 3 minutes.
3. Clean the cryovial with 70% ethanol.

Plating the Cells

1. Remove a sample of cells to perform a cell count using a hemocytometer (using trypan blue exclusion).
2. Dilute the cells in an appropriate volume of HPC culture medium to obtain the desired plating density.
3. Dispense the cells into the cell culture vessel.
4. Culture the cells at 37°C, 5% CO₂.

Contacting Technical Support

Email: fcdi-support@fujifilm.com
Phone: +1 (877) 320-6688 (US toll-free)

Table 1: HPC Culture Medium Recommendations

<table>
<thead>
<tr>
<th>Component</th>
<th>Vendor</th>
<th>Catalog #</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIME-XV Hematopoietic Cell Basal XSFM</td>
<td>FUJIFILM Irvine Scientific</td>
<td>91211</td>
</tr>
<tr>
<td>StemSpan SFEM</td>
<td>STEMCELL Technologies</td>
<td>09650</td>
</tr>
<tr>
<td>Stemline II Hematopoietic Stem Cell Expansion Media</td>
<td>MilliporeSigma</td>
<td>S0192</td>
</tr>
<tr>
<td>IMDM¹</td>
<td>Thermo Fisher Scientific</td>
<td>12440</td>
</tr>
</tbody>
</table>

¹Supplement with 10% FBS (GE Healthcare Life Sciences Catalog # SH30396.03).

Note: HPC culture medium must be supplemented with hematopoietic cytokines and growth factors as required for intended use.

Figure 1: iCell Hematopoietic Progenitor Cells 2.0, 01279
Expected morphology and plating density for 1 million cells plated into a T25 flask at 24 hours post-plating.
Conditions of Use
iCell Hematopoietic Progenitor Cells are FOR RESEARCH USE ONLY. See https://fujifilmcdi.com/assets/tnc/standard.pdf for USE RESTRICTIONS applicable to the cells and other terms and conditions related to the cells and their use.

If the Products purchased by or transferred to Customer are iCell Hematopoietic Progenitor Cells, then the Customer may not use such Products to make microglia, including for use in internal research, notwithstanding what is provided elsewhere. For information on obtaining from FCDI a license under patent(s) pertaining to a method to make microglia owned by The Regents of the University of California and licensed to FCDI, please contact fcdi-licensing@fujifilm.com.

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