

**iCell® Hematopoietic Progenitor Cells 2.0**

**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.

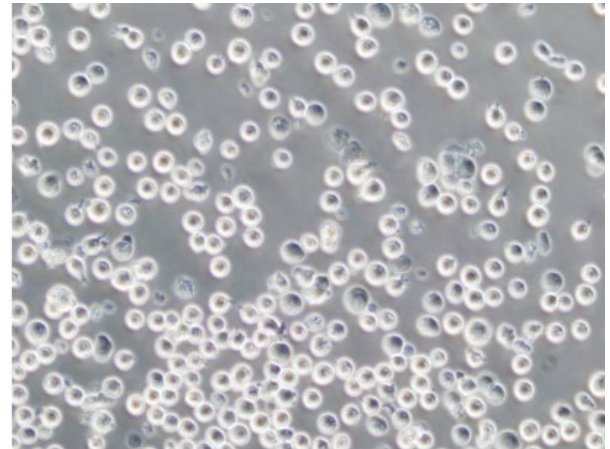
**Plating the Cells**

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% CO<sub>2</sub>.

**Contacting Technical Support**

**Email:** [fc-di-support@fujifilm.com](mailto:fc-di-support@fujifilm.com)

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**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.

**Table 1: HPC Culture Medium Recommendations**

Component	Vendor	Catalog #
PRIME-XV Hematopoietic Cell Basal XSFM	FUJIFILM Irvine Scientific	91211
StemSpan SFEM	STEMCELL Technologies	09650
Stemline II Hematopoietic Stem Cell Expansion Media	MilliporeSigma	S0192
IMDM <sup>1</sup>	Thermo Fisher Scientific	12440

<sup>1</sup>Supplement 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.

**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.

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**Revision History**

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