Human CD34+ Hematopoietic Stem Cells (HHSC-CD34+)

Specification Sheet

**HUMAN CD34+ HEMATOPOIETIC STEM CELLS ARE TESTED FOR:**

<table>
<thead>
<tr>
<th>Test</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Count</td>
<td>≥200,000 cryopreserved cells per vial</td>
</tr>
<tr>
<td>Morphology</td>
<td>Normal morphology</td>
</tr>
<tr>
<td>Cell Viability</td>
<td>Minimum 80% viability when thawed from cryopreservation</td>
</tr>
<tr>
<td>Sterility Testing</td>
<td>Negative for bacterial and fungal growth</td>
</tr>
<tr>
<td>Virus Testing</td>
<td>Donors test negative for HIV-1, HIV-2, HBV, and HCV</td>
</tr>
<tr>
<td>Specific Markers</td>
<td>CD34</td>
</tr>
</tbody>
</table>

**PART NUMBER** | **DESCRIPTION**
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HC-0006 | HHSC-CD34+, Human CD34+ Hematopoietic Stem Cells – ≥200,000 cells per vial

**CELL FEATURES**

- HHSC-CD34+ are cryopreserved upon isolation and purification.
- HHSC-CD34+ provide an ideal culture model for the study of hematopoiesis.
- HHSC-CD34+ are extensively tested for quality and optimal performance.
- Lifeline guarantees performance and quality.

An example of flow cytometry dot plots showing the expression of CD45 and CD34.

To place an order, please visit lifelinecelltech.com or call technical and customer service at 877.845.7787.
Lifeline’s Human CD34+ Hematopoietic Stem Cells

Lifeline’s Human CD34+ Hematopoietic Stem Cells provide an ideal culture model for the study of hematopoiesis. HHSC-CD34+ can be expanded and differentiated into both myeloid (e.g., monocytes, erythrocytes, eosinophils, and megakaryocytes among others) and lymphoid (T-Cells, B-Cells, and NK Cells) lineages.

Lifeline’s HHSC-CD34+ cells are pluripotent stem cells that give rise to all cell types in blood. These stem cells are typically found in the bone marrow and they compose less than 1% of nucleated cells in the blood. The CD34+ cells we provide are from this rare population of circulating stem cells. They are derived from healthy normal donors and are checked for viability and purity. Our HHSC-CD34+ are quality tested via flow cytometry to ensure proper expression of multiple markers including positive expression of CD34 and CD45 and negative expression of lineage specific markers such as CD3, CD19, CD14 and CD56.

Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates extensive quality assurance in every production run. Exacting standards and production procedures ensure consistent performance.

The Lifeline® Guarantee

Lifeline’s rigorous quality control ensures sterility and performance to standardized testing criteria. If Lifeline’s products do not meet our posted performance and quality standards, we will replace them at no charge or provide a full refund. Upon request, Lifeline will provide lot specific QC test results, material safety data sheets, and certificates of analysis. See complete guarantee/warranty statement at lifelinecelltech.com or contact your Lifeline representative for more information.

All donated tissues have been obtained under proper informed consent and adheres to the Declaration of Helsinki, The Human Tissue Act (UK), CFR Title 21, and HIPPA Regulations relative to obtaining and handling human tissue for Research Use.

Safety Statement

This product is for Research Use Only. This product is not approved for human or veterinary use or for use in in vitro diagnostics or clinical procedures.

This product contains human serum and should be handled as potentially infectious material. While the human serum used in this product has been tested, no known test method can guarantee the absence of Hepatitis B virus, Hepatitis C virus, HIV-1, HIV-2 or other infectious agents. All products which contain or have contacted human blood based products should be handled as Biosafety Level 2 (cdc.gov) and according to the Bloodborne Pathogen Standard 29 CFR 1910.1030.

Lifeline recommends storing cryopreserved vials in liquid nitrogen vapor phase. Handle cryopreserved vials with caution. Always wear eye protection and gloves when working with cell cultures. Aseptically vent any liquid nitrogen from cryopreserved vials by carefully loosening the vial cap in a biosafety cabinet prior to thawing the vials in a water bath. If vials must be stored in liquid phase, the vials should be transferred to vapor phase storage or -80°C for up to 24 hours prior to being thawed.

Call Lifeline Technical Service and Sales at 877.845.7787
or visit lifelinecelltech.com for more information