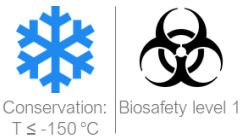
Human Cord Blood CD34+ Stem/Progenitor Cells, Cryopreserved, 1.10^6 cells

Product sheet, catalog n° CTICC.IMUCB.2

General Information

- **Organism:** Human (*Homo sapiens*)
- **Tissue:** Umbilical cord blood
- **Cell Type**: Progenitor cord blood cells
- **Gender:** Male or Female (see Certificate of Analysis)
- **Age:** 18 to 99 years old (see Certificate of Analysis)
- **Donor type:** (see Certificate of Analysis)



Cell Characteristics

- **Cell properties:** Suspension
- **Morphology:** Spherical
- **Cell surface marker:** CD34+
- **Isolation:** Density gradient separation Ficoll Plaque plus + Immunomagnetic selection
- **Cell viability:** Minimum 70% viability when thawed from cryopreservation*
- **Cell conditioning:** 1M viable cells before cryopreservation*
- **Cryopreservation medium:** Frozen with 90% serum-free cryopreservation medium + 10% DMSO
- **Storage condition:** Liquid nitrogen
- **Batch specific information**: (see Certificate of Analysis)

* Thawing of the cell products may induce up to 30% cell loss depending on the operator's experience and thawing procedures

Safety and Quality Control

- **Biosafety level:** 1
- **Contamination:** Use mandatory laboratory protection and handle with care tissues and cells derived from human samples to avoid any contamination of the operator.
- **Viral testing:** Negative for HIV, HBV, HCV

Handling upon delivery and storage

- Check that the containers are intact and free of damage
- If not used immediately, place the vials at -150°C or below upon delivery

Thawing

1. Add 13 ml of autoMACS® Running Buffer – MACS® Separation Buffer (by Miltenyi Biotec ref.130-091-221) solution to a 15 ml conical tube, and warm in a water bath to 37 ˚C
2. Thaw cryovial by swirling in a water bath at 37 ˚C. As soon as thawed, start next step
3. Add the cell suspension to the warmed autoMACS® Running Buffer in sterile conditions
4. Spin the tube at 300 g for 10 minutes to pellet the cells
5. Resuspend the cells in the appropriate volume of medium before using them

Associated products

- **CTICC.IMUCB.1:** Human Cord Blood MNC, Cryopreserved, 10.10^6 cells
- **CTICC.IMUCB.4:** Human Cord Blood B-Cells, CD19+, Cryopreserved, 1.10^6 cells
- **CTICC.IMUCB.7:** Human Cord Blood T-Cells, CD3+, Cryopreserved, 1.10^7 cells

Provisions

- Cells and tissues are intended for **research use only** and shall not be used for human trials, animal trials, or diagnostics.
- **Consent:** the original tissues have been obtained after informed consent of the patient under the provisions required by French Law.
- **Primary Human cells** are not immortalised cell lines and may not be continually subcultured.