

## Certificate of Analysis

### Human Adult Purified CD34 Stem/Progenitor Cells- Cryopreserved Vial

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Catalog number:	M34C-GCSF-2 (5 x 10 <sup>6</sup> cells/vial)
Lot Number:	18000000
Source ID:	D000000
Description:	CD34 <sup>+</sup> progenitor cells were isolated from G-CSF mobilized leukapheresis product by positive selection using CD34 <sup>+</sup> immunomagnetic bead separation. After isolation, the CD34 <sup>+</sup> cells were tested for purity and viability by flow cytometry. The CD34 <sup>+</sup> progenitor cells were cryopreserved in Cryostor CS10 (BioLife Solution, Seattle, WA) using a CoolCell (BioCision, San Diego, CA) freezing container, and stored in the vapor phase of liquid nitrogen. These cells are also available in a freshly isolated, nonfrozen format.
Source:	Freshly collected Mobilized Leukopak from HemaCare (Cat # M001)
Instructions:	Upon arrival, either prepare cells for long term frozen storage in Liquid Nitrogen vapor phase or thaw for further experiments.
Principle Markers:	CD34 <sup>+</sup> , CD45 <sup>+</sup>
Biosafety:	Cells should be handled biohazardous following biosafety level 2 procedures. Universal precautions should be utilized when working with these cells. Use aseptic techniques when thawing or handling the cells.

The following donor screening tests have been performed:

CMV testing upon request

**Serological Testing:**

- Syphilis
- Antibody Screen

**Infectious Disease Panel:**

- Hepatitis B Core Antibody (Anti-HBc EIA)
- Hepatitis B Surface Antigen (HBsAg EIA)
- Hepatitis C Virus Antibody (Anti-HCV EIA)
- Human Immunodeficiency Virus Antibody (HIV 1/2 plus O)
- Human T-Lymphotropic Virus Antibody (HTLV-I/II)
- HIV-1/HCV/HBV Nucleic Acid Testing
- WNV Nucleic Acid Testing
- Trypanasoma cruzi Antibody

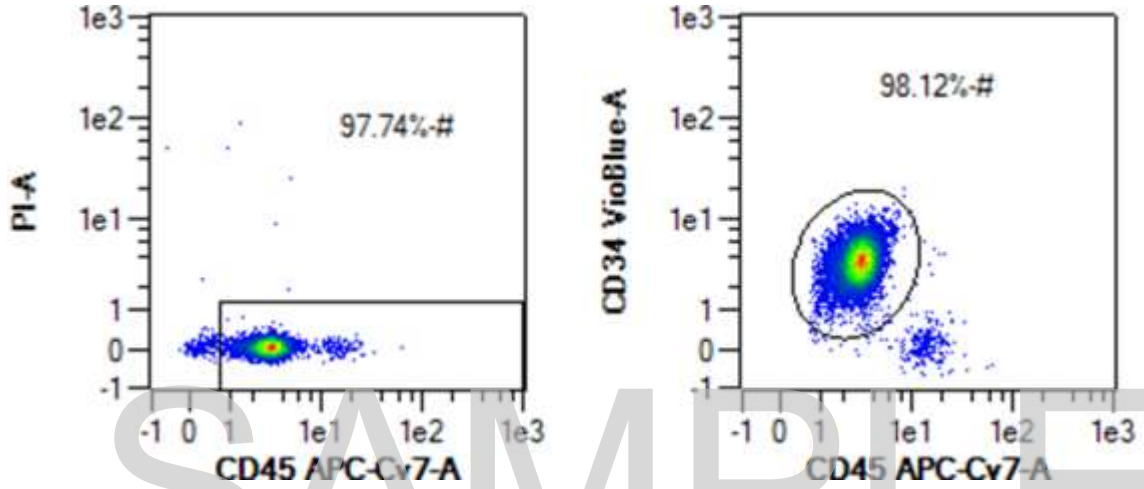
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#### Flow Cytometry Analysis



Viability is 99.89% based on FSC/PI staining pre-cryopreservation (not shown).

#### Surface Marker Summary

CD45 <sup>+</sup> , PI <sup>-</sup>	CD34 <sup>+</sup> Cells
97.74%	98.12%

#### Donor Demographics and Lot Specific Information

Source ID	Age	Gender	Ethnicity	Blood Type	Cryopreservation Date
144719	18	Female	Caucasian	O Pos	October 5, 2018

**Donor Testing Panel Results:** Negative for all donor screening tests performed

Released By:

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