

## Certificate of Analysis

### Human Adult Mobilized Peripheral Blood Leukopak- Cryopreserved

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Catalog number: M001CLPG

Lot Number: 18000000

Source ID: D000000

Description: Leukopaks from mobilized peripheral blood are collected from normal, healthy donors injected with G-CSF. G-CSF stimulates the bone marrow to produce a large number of hematopoietic and progenitor stem cells and mobilizes them into the peripheral blood stream. Principle biomarkers CD45<sup>+</sup> and CD34<sup>+</sup> were identified by flow cytometry. The cells were cryopreserved in Cryostor CS10 solution (BioLife Solutions, Seattle, WA) in a OriGen CS250 bag, using a controlled rate cryopreservation procedure.

Source: Freshly collected Mobilized Leukopak from HemaCare (Cat # M001)

Biosafety: This material should be handled following biosafety level 2 biohazard procedures. Universal precautions should be utilized when working with this material.

Donor Testing Panel Results: The donor of this product was previously tested according to current FDA requirements for allogeneic blood donation on their previous donation. All results were acceptable at that time. In the event that any test results from their donation of this product are not acceptable, you will receive notification of those results.

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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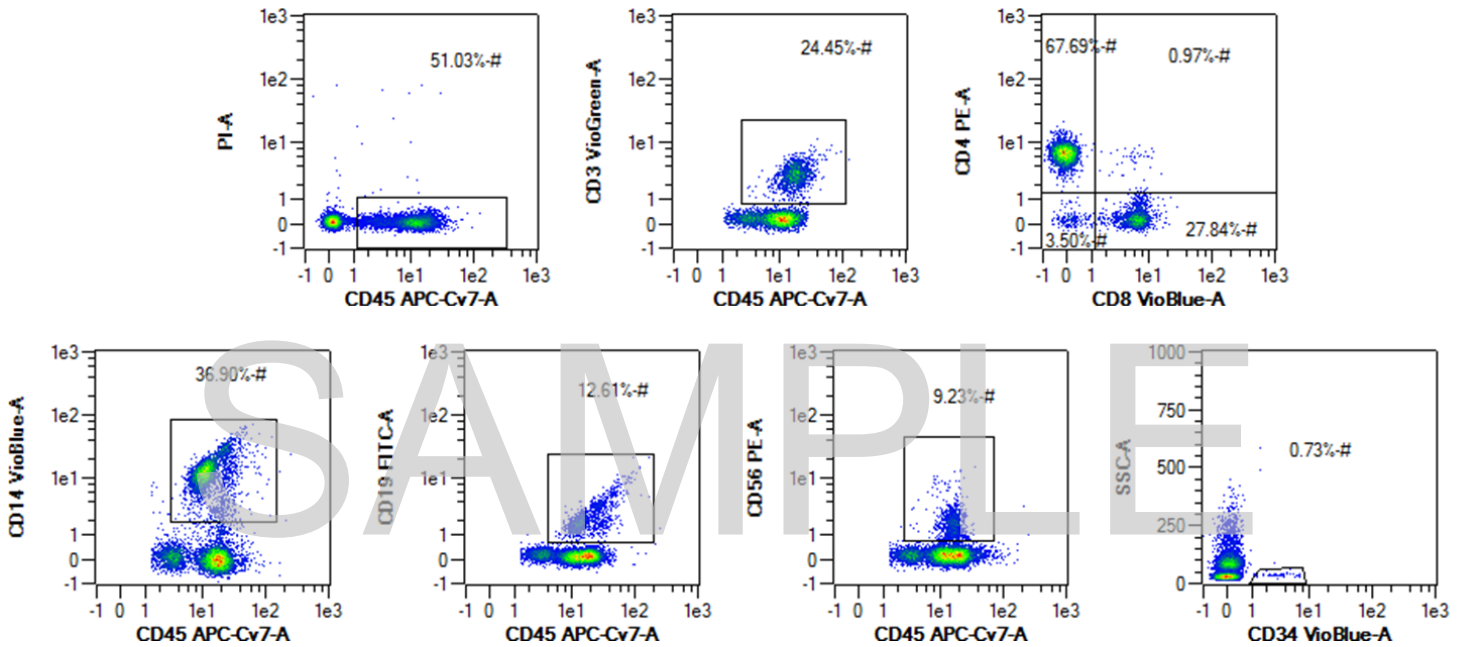
 WBC count: 3541 x 10<sup>6</sup> cells/ bag

Dosing days: 4 day

Volume: 80mL/ bag

Cryopreservation date: May 14, 2018

#### Flow Cytometry Analysis



Viability is 99.37% based on FSC/PI staining (not shown).

Flow Cytometry staining results of Leukopak on date of collection. CD34 staining is gated on CD45<sup>+</sup>/PI<sup>-</sup> population.

#### Surface Marker Summary

CD45 <sup>+</sup> Cells	CD3 <sup>+</sup> Cells	CD14 <sup>+</sup> Cells	CD19 <sup>+</sup> Cells	CD56 <sup>+</sup> Cells	CD34 <sup>+</sup> Cells
51.03%	24.45%	36.90%	12.61%	9.23%	0.73%

#### Donor Demographics and Lot Specific Information

Source ID	Age	Gender	Weight	Height	Ethnicity	Blood Type
D326312	47	Male	233 lbs	6'0"	Caucasian	O Pos

Released By:

