

**Certificate of Analysis**  
**Human Adult Mobilized Peripheral Blood Leukopak- Fresh**

Catalog number: M001F-GCSF-3  
 DIN: W313718000000  
 Source ID: D000000

**Description:** Leukopaks from mobilized peripheral blood are collected from normal, healthy donors on a specific dosing regimen. These injections are designed to stimulate the bone marrow in order to produce a large number of hematopoietic and progenitor stem cells, which increases their frequency in the peripheral blood stream. Principle biomarkers CD45<sup>+</sup> and CD34<sup>+</sup> were identified by flow cytometry. This product is also available in a freshly collected, frozen format.

**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, with the exception of Zika, and all results were acceptable at that time.

**Donor Demographics:**

The following donor screening tests have been performed:  
 (CMV testing upon request)

**WBC yield:** 59.76 x 10<sup>9</sup> cells

**Serological Testing:**

- Syphilis
- Antibody Screen

**Volume:** 450 mL

**Viability:** 99.62%  
 -Viability is based on FSC/PI<sup>-</sup> staining(not shown).

**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 Ab (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

**Dosing days:** 5 days

**Apheresis collection date:** October 23, 2018

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

CD45 <sup>+</sup>	CD34 <sup>+</sup>
67.14%	1.07%

**Donor Demographics and Lot Specific Information**

Source ID	Age	Gender	Weight	Height	Ethnicity	Blood Type	Collection Start Time	Collection End Time
D328229	32	Male	172lbs	5'6"	African American	A-POS	07:18 PDT	12:56 PDT

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