

## Certificate of Analysis

### Human Adult Purified CD19<sup>+</sup> B Cells - Cryopreserved Vial

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Catalog number:	PB19NC- 1 (10 x 10 <sup>6</sup> cells/vial)
Lot Number:	18047722
Source ID:	D316200
Description:	CD19 <sup>+</sup> B cells were negatively selected via immunomagnetic beads from a leukopheresis collection. After isolation, the CD19 <sup>+</sup> B cells were tested for purity and viability by flow cytometry. The CD19 <sup>+</sup> B cells were then 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. The cells are also available in a freshly isolated, non-frozen format.
Source:	Freshly collected Leukopak (Cat# PB001F-1) from HemaCare
Storage Conditions:	Prepare cells for long term frozen storage in Liquid Nitrogen vapor phase or thaw for further experiments.
Principle Markers:	CD19 <sup>+</sup> , CD45 <sup>+</sup>
Biosafety:	Cells should be handled 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

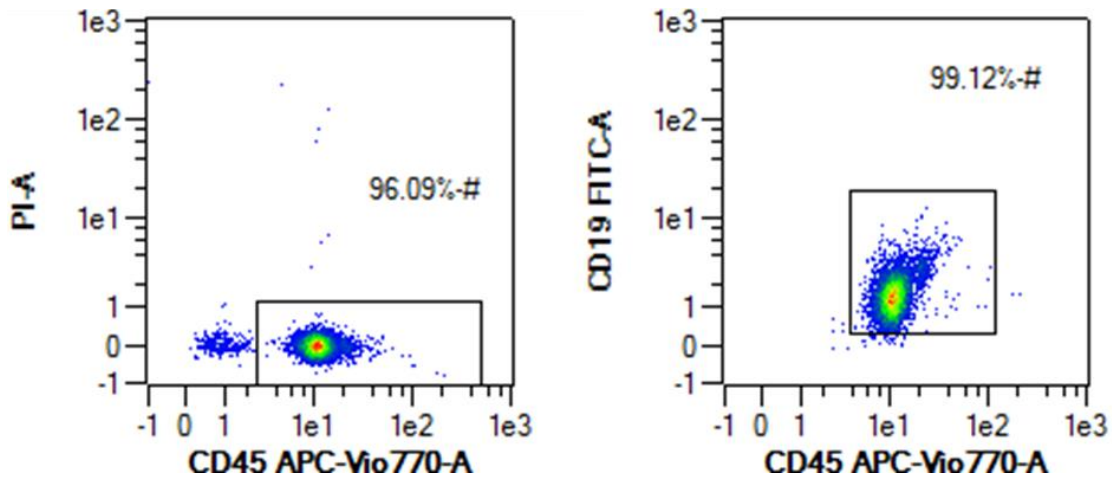
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#### Flow Cytometry Analysis



Viability is 99.83% based on FSC/P<sub>T</sub> staining pre-cryopreservation (not shown).

SAMPLE

#### Surface Marker Summary

PI /CD45 <sup>+</sup>	CD19 <sup>+</sup> Cells
96.09 %	99.12 %

#### Donor Demographics and Lot Specific Information

Source ID	Age	Gender	Ethnicity	Blood Type	Cryopreservation Date
D316200	33	Male	Barbadian/Hispanic	B Pos	April 26, 2018

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

Released By:

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