PRIMACYT
Cell Culture Technology

HPBMC Human Peripheral Blood Mononuclear Cells, cryopreserved **Cell Specification // Certificate of Analysis**	
Lot HPBMC 210127	Batch Release: Feb 18, 2021

Freshly isolated human peripheral blood mononuclear cells (PBMC) from donations of healthy donors were purified by density gradient centrifugation using Ficoll.

Cryopreserved cells were thawed. Cell number and viability were determined by Trypan blue exclusion staining. Subpopulations were identified by flow cytometry.

Donor demographics and lot specific information

Gender	Age	Ethnicity	Anticoagulant
Female	22 years	Caucasian	CPD (Citrate-Phosphate-Dextrose)

Serology Testing

Donor has been screened and tested negative for:

- Hepatitis B (HBV, HBsAg)
- Hepatitis C (HCV, anti-HCV)
- Human Immunodeficiency Virus (HIV-1/anti-HIV-1/2)
- Parvo B19
- Syphilis/Lues

Cryopreservation:	**Thawing:** n=2
Date: Jan 27, 2021 Amount per vial: 10.1 x 10^6 cells	Post-thaw viability: 89.9 ± 0.5 % Post-thaw yield per vial: 7.6 ± 1.1 x 10^6 cells Recovery: 74.8 ± 10.5 %

Analysis of PBMC subpopulations by flow cytometry:

Surface Marker Summary

$CD19^+$ B cells	$CD3^+$ T cells	$CD3^+$ $CD4^+$ T cells	$CD3^+$ $CD8^+$ T cells	$CD56^+$ NK cells	$CD14^+$ Monocytes
9.5 %	78.7 %	51.1 %	22.7 %	11.6 %	17.6 %

E-mail: info@primacyt.com, Tel.: +49 (0) 385-3993-600, Fax: +49 (0) 385-3993-602

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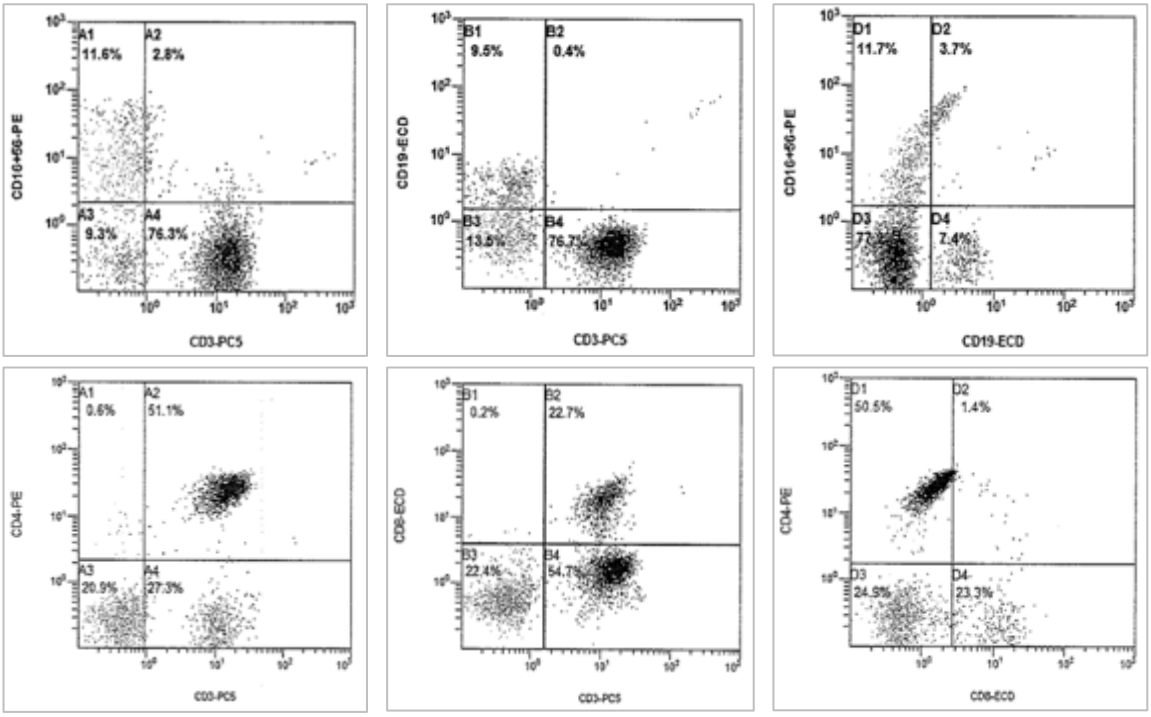
Flow cytometry analysis



Store at -150 °C or in the vapour phase of LN_2

This product should be considered as potential biohazard. Only intended for *in vitro* use. Not intended for therapeutic use.

Note: Yield, viability and recovery were performed at PRIMACYT using PRIMACYT's manual for thawing of primary cryopreserved PMBCs.

Issued by: A. Ullrich Verified by: T. Krimmling