

HPBMC Human Peripheral Blood Mononuclear Cells, cryopreserved
Cell Specification // Certificate of Analysis

Lot HPBMC 210602-1

Batch Release: July 02, 2021

Freshly isolated human peripheral blood mononuclear cells (PBMC) from 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	50 years	Caucasian	CPD (Citrate-Phosphate-Dextrose)

Serology Testing

Donor has been screened and **tested negative** for:

- Hepatitis B (HBV-DNA, HBsAg, anti-HBc)
- Hepatitis C (HCV-RNA, anti-HCV)
- Human Immunodeficiency Virus (HIV-1-RNA, HIV)
- Hepatitis E Virus (HEV-RNA)
- Syphilis
- Cytomegalovirus (anti-CMV)

Cryopreservation:

Date: June 02, 2021

Amount per vial: 15.0 x 10⁶ cells

Thawing: n=1

Post-thaw viability: 92.0 %

Post-thaw yield per vial: 11.3 x 10⁶ cells

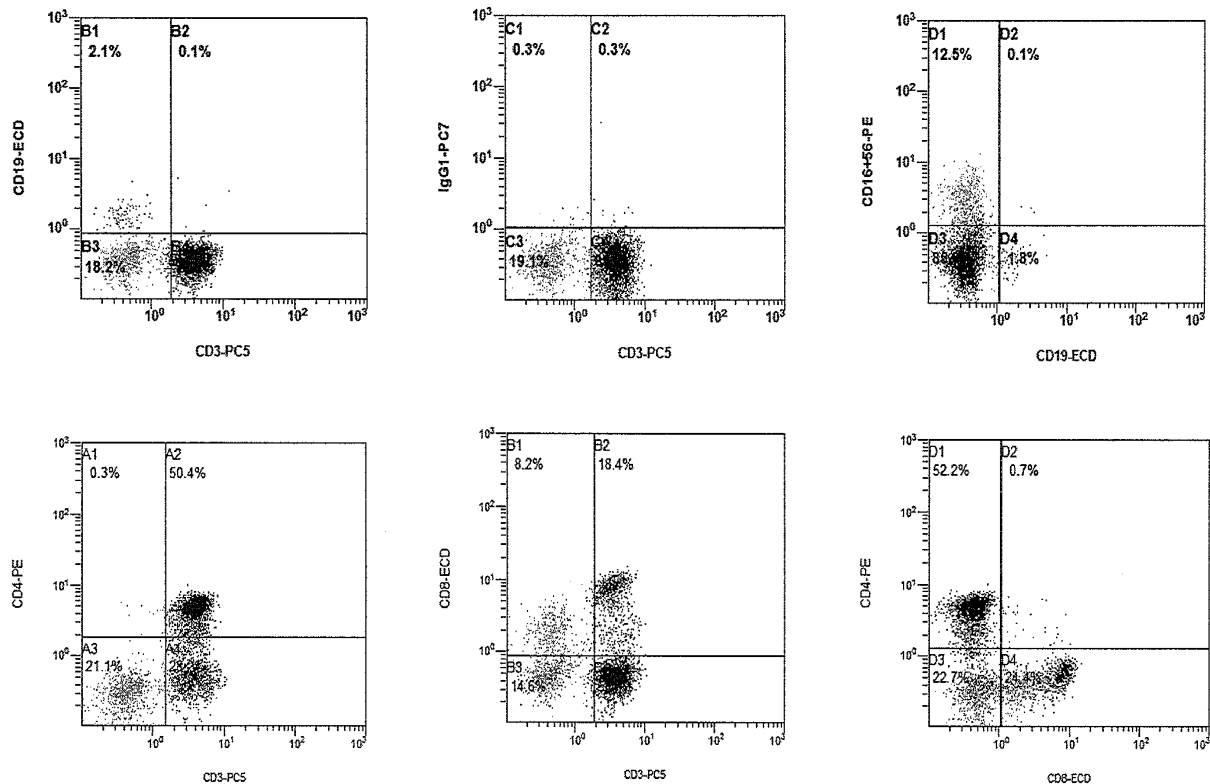
Recovery: 75.6 %

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
2.1 %	77.3 %	50.3 %	18.5 %	8.3 %	9.8 %

Flow cytometry analysis



Store at -150 °C or in the vapour phase of LN₂

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. Alkufairi

Verified by: T.Krimmling