

# PBMC Isolation in GCCL

PBMCs (Peripheral Blood Mononuclear Cells) contain lymphocytes (T cells, B cells, and NK cells), monocytes, and dendritic cells, contributing significantly to diverse research areas, including cell isolation and culture, along with cell-based immunological analysis.

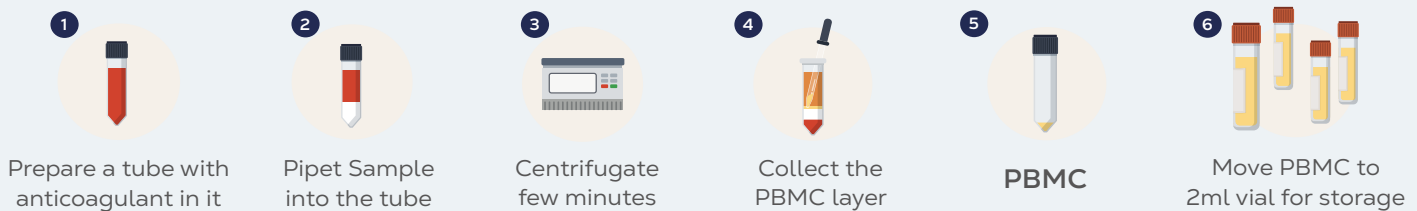
GCCL boasts teams of seasoned professionals and abundant experience in PBMC Isolation, and also provides the best service to introduce a computerized resource management system to produce safe and reliable sample resources.

## > Why PBMC Isolation is important?

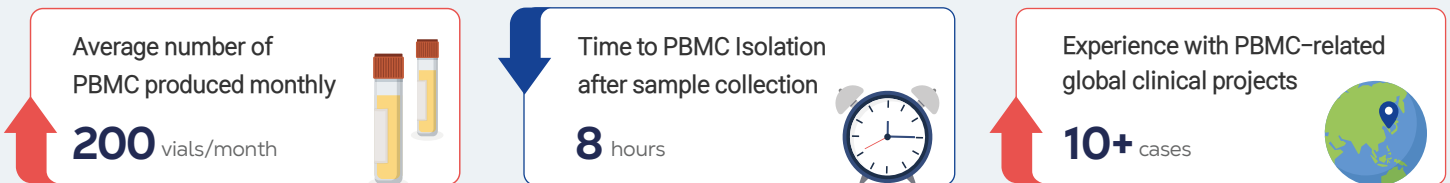
Delays in time or problems with the Isolation process can lead to **RBC Morphology variation and contamination**.

So, Acquiring top-notch PBMC necessitates precise and expeditious isolation performed by seasoned technicians well-versed in Standard Operating Procedure (SOP)

## > PBMC Isolation Process



## > GCCL's Strength in PBMC Isolation



### Bio Logistics

- By using a transportation system with more than 55 branches in Korea, **PBMC can be isolated within 8 hours by ensuring arrival at GCCL within a maximum of 6 hours after sample collection**
- Numerous international sample management experiences with a global courier network

### Experienced Staff & Platforms

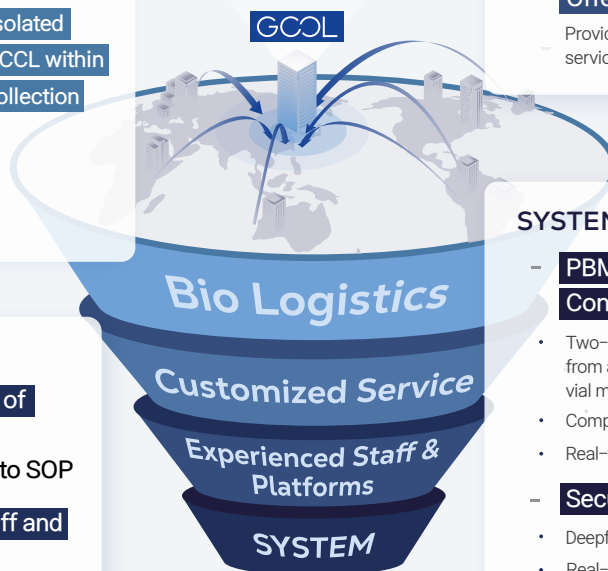
- Periodic training and development of staff, along with validation of cell isolation competencies according to SOP
- A large number of professional staff and various analytical equipment such as BSC, Centrifuge, Cell Counter etc.

### Customized Service

- Offer a variety of customized services
- Provide BMBC(Bone Marrow Mononuclear Cell) Isolation service alongside PBMC

### SYSTEM

- **PBMC resource management system Construction**
  - Two-level barcode system that manages the entire process from a sample arrival to centrifugation, autologous PBMC vial manufacturing, storage, release mapping, and disposal
  - Computerized process for increased reliability and accuracy
  - Real-time information accessible to upon customer request
- **Securing Resource Management**
  - Deepfreezer /LN2 real-time temperature monitoring
  - Real-time alert service when out of bounds
  - Prepare backup equipment in case of equipment failure



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