Human Peripheral Blood Mononuclear Cells

Catalog Number	ALHE39
Product Name	Human Peripheral Blood Mononuclear Cells
Storage	Liquid Nitrogen
Product Format	Frozen vial
Cells Number	10.000.000 cells

***Caution:** The handling of human derived products has the potential to be biologically hazardous. All Cell strains tested negative for HIV, HBV, and HCV DNA in diagnostic tests. Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (Gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.

GENERAL INFORMATION

These blood cells are a critical component in human immune system to fight pathogen. PBMCs consist of lymphocytes (T, B and NK cells), monocytes and dendritic cells . PBMCs are widely used in fields including immunology, infectious diseases and hematological malignancies etc. research. Human Peripheral Blood Mononuclear Cells are blood cell with a single nucleus . Those cells are derived from the human peripheral blood of individual healthy donors (Immune Cells and Hematopoietic Cells). Blood Cell Culture Medium (Cat.#BCM001) was used to culture those cells. When you receive the cells, put the vial in -80°C freezer or Liquid Nitrogen Vapor Phase.

Human Human Peripheral Blood Mononuclear cells are negative for	HIV-1, HBV, HCV, and mycoplasma

PRODUCT USE AND SHIPPING STATUS

Product Use	For research use only
Shipping Status	Frozen vial

Frozen Vial:

1) Coating T25 flasks. Add 2 ml AlphaBioCoat (Cat.#AC001) into a T25 flask and ensure entire interior surface is coated with solution. After 30 minutes, dispose of AlphaBioCoat by aspiration. Gently rinse and aspirate flask with Phosphate Buffer Solution (Cat.#1XPBS-001). The flask is now ready for use (no need for overnight incubation when coated with Cat.#AC001).
2) If you are using the coated flask the same day, add about 4 ml of Blood cell Growth and Expansion Media (Cat.#BCM001) to the coated flask. If the media changes color from pink to yellow, aspirate and discard the media. Add 4ml of fresh media to the coated flask.
3) Thaw the cells in a 37°C water bath. Once you see a small amount of ice left in the vial, spray the vial with 70% Ethanol and wipe it down.
4) Transfer the vial into your Biosafety cabinet.
5) Using a 2 or 5ml pipette, pipette the cells out of the vial.
6) Transfer your cell suspension in to your coated plate that have the 4 ml media in it.
7) You should have a total working volume of 5ml of cell suspension in the flask; close the cap. Make sure cells are evenly distributed in the flask by moving the flask left and right five times. Move it up and down for an additional five times.
8) Place flask in a 37°C incubator with 5% C02. If flask is not vented, please loosen cap.
9) Change media after 48 hours.
10) End of Protocol