

## Human PBMCs from Patient Donors

Catalog No.	Product Name	Product quantity	Short-term Storage	Long-term Storage	Thawing Instructions
ax3417 ax3419 ax3420 ax3421 ax3422 ax3423 ax3424	PBMCs from Patient Donors	≥10 million cells/vial	Liquid Nitrogen	Liquid Nitrogen	See below
ax3460	Mononuclear Cell Maintenance Medium	100 mL	Store at 4°C for up to 1 month	Aliquot and store at -20°C for up to 6 months	Thaw at 4°C or at room temperature

Lot-specific information such as donor details and passage number are stated in the Certificate of Analysis for each product.

## Recommendations:

**Always count the number of viable cells after thawing**

- Recommended culture vessel coating: Not required
- Recommended cell culture medium: **Mononuclear Cell Maintenance Medium**
- Recommended seeding density: **As required (~1 million cells / mL)**
- Recommended centrifugation speed: **400 x g for 10 minutes**

## Thawing & Plating:

- Transfer the vial of cells from liquid nitrogen storage with the vial buried in dry ice. Remove the vial from dry ice and transfer it immediately to a **37°C** water bath.
- Thaw the cells quickly in a **37°C** water bath until just prior to complete thawing.
- Wipe the outside of the vial with 70% ethanol.
- Gently resuspend the cells and transfer to a **15 mL** sterile conical tube.
- Slowly add **10 mL** of pre-warmed **Mononuclear Cell Maintenance Medium**.
- Rinse the cryovial twice with **1 mL** of **Mononuclear Cell Maintenance Medium** to ensure all of the cells are transferred.
- Centrifuge the cells at **400 x g for 10 minutes**.
- Carefully remove the supernatant and resuspend the cell pellet in **2 mL** of pre-warmed **Mononuclear Cell Maintenance Medium**.
- Perform a cell count to determine the number of viable cells.

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- Dilute the cells into the required volume of pre-warmed **Mononuclear Cell Maintenance Medium**.
- Seed cells into the culture vessel at the required seeding density.
- Proceed with experiment assays.
- Incubate the cells at **37°C, 5% CO<sub>2</sub>** in a humidified incubator.

## Passaging:

The PBMCs should be used directly for endpoint assays and should not be cultured long-term or passaged. The **Mononuclear Cell Maintenance Medium** is designed to maintain PBMCs after thawing and short-term culture. Expansion of PBMCs may lead to a loss of cell types and dominance of certain PBMC subtypes such as T cells. The expanded cells may also exhibit dependency on the particular cytokines and growth factors used.

## Usage Statement:

Our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, *in vitro* diagnostic uses, *ex vivo* or *in vivo* therapeutic uses or any type of consumption or application to humans.

Got any questions? Need help with the protocol?  
Contact Axol Technical Support at [support@axolbio.com](mailto:support@axolbio.com)  
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