

Human Peripheral Blood Mononuclear Cells (PBMCs), Healthy Adult Donor

Catalog No.	Product Name	Product quantity	Short-term Storage	Long-term Storage	Thawing Instructions
ax3418-15M	Peripheral Blood Mononuclear Cells	15 million cells / vial	Liquid nitrogen	Liquid nitrogen	See below
ax3455	Leukocyte Plating & Maintenance Medium	100 mL	4°C for 1 month	N/A	N/A

Lot-specific information such as donor information is stated in the Certificate of Analysis.

Recommendations:

Always count the number of viable cells after thawing

- Recommended culture vessel coating: Not required
- Recommended culture medium: Axol Leukocyte Plating & Maintenance Medium
- Recommended seeding density: As required (~1 million cells / mL)
- Recommended centrifugation speed: 400 x g for 10 min

Thawing & Plating:

- 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 **Leukocyte Plating & Maintenance Medium**.
- Rinse the cryovial twice with 1 mL of medium to ensure all of the cells are transferred.
- Centrifuge the cells at 400 x g at room temperature for 10 min.
- Carefully remove the supernatant and resuspend in 2 mL of pre-warmed **Leukocyte Plating & Maintenance Medium** and perform a cell count.
- Dilute the cells into the required volume of pre-warmed **Leukocyte Plating & Maintenance Medium**.
- Seed cells into the culture vessel at the recommended seeding density.
- Proceed with experiment assays.

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Passaging:

The PBMCs should be used directly for endpoint assays and should not be cultured long-term or passaged. The **Leukocyte Plating & Maintenance Medium** is designed to maintain PBMCs after thawing and minimize cell clumping. PBMCs will not proliferate without the addition of activating cytokines and growth factors (not supplied). 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.

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