

ImmunoCult™-XF T Cell Expansion Medium

Serum-free and xeno-free medium for the expansion of human T cells

Catalog # 10981

500 mL



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Product Description

ImmunoCult™-XF T Cell Expansion Medium is a serum-free and xeno-free medium optimized for the in vitro culture and expansion of human T cells isolated from peripheral blood. Recombinant cytokines, required for the optimal growth and expansion of T cells, have not been added to ImmunoCult™-XF T Cell Expansion Medium. This allows users the flexibility to prepare medium that meets their requirements.

- No need to supplement the medium with serum
- Supports robust T cell expansion at levels comparable to those in serum-containing media
- Maintains similar proportions of CD4/CD8 cells to the start of culture after expansion
- Expanded T cells are able to produce cytokines including IFN-gamma and IL-4
- Use with ImmunoCult™ Human T Cell Activators (Catalog #10970 and 10971) for bead-free activation of T cells

Properties

Storage: Store at 2 - 8°C. Do not freeze.

Shelf Life: Stable until expiry date (EXP) on label.

This product contains material derived from human plasma. Donors have been tested and found negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

Handling / Directions For Use

1. Start with purified human T cells at 1×10^6 cells/mL in ImmunoCult™-XF T Cell Expansion Medium supplemented with cytokines (e.g. 30 - 100 IU/mL IL-2; Catalog #78036).
2. Activate human T cells with ImmunoCult™ Human CD3/CD28/CD2 T Cell Activator (Catalog #10970), ImmunoCult™ Human CD3/CD28 T Cell Activator (Catalog #10971), or with other desired reagents to activate T cells. Incubate cells at 37°C and 5% CO₂.
3. Adjust the cell density to 1×10^6 cells/mL every 3 - 4 days as needed with the addition of fresh ImmunoCult™-XF T Cell Expansion Medium supplemented with cytokines.
4. For longer-term expansion of human T cells, every 7 - 10 days harvest and resuspend the expanded T cells at 1×10^6 cells/mL in fresh culture medium and restimulate with ImmunoCult™ Human CD3/CD28/CD2 T Cell Activator (Catalog #10970), ImmunoCult™ Human CD3/CD28 T Cell Activator (Catalog #10971), or with other desired reagents to activate T cells.

NOTE: These are general procedures for the handling and use of ImmunoCult™-XF T Cell Expansion Medium. Depending on your experimental objectives, optimization of these procedures (e.g. cell seeding density and cytokine concentration) may be needed for optimal cell growth.

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