

OptiVibro® T Cell

Serum-Free Medium TE07

Phenol red-free medium system for T-cell activation and expansion

Xeno-free | Serum-free | Exogenous growth factor-free

Product overview

OptiVibro® T Cell Serum-Free Medium TE07 (phenol red-free) is a serum-free, xeno-free, exogenous growth factor-free medium system for maintenance, activation, and expansion of human T lymphocytes. It combines T Cell Serum-Free Basal Medium TE07 (phenol red-free) with Immune Cell Serum-Free Medium Supplement. Additional activation and expansion cytokines are required.

Key features

- Serum-free, xeno-free, exogenous growth factor-free, and phenol red-free formulation.
- Supports T-cell maintenance and expansion while avoiding serum-derived undefined components.
- Suitable for activation and expansion of human PBMC- and CBMC-derived T cells.
- Supports robust T-cell expansion and high cell viability in an appropriate culture workflow.
- Sterile-filtered, liquid kit configuration for research, process development, and manufacturing workflows.

Typical applications

T-cell activation and expansion for immunotherapy research, cell and gene therapy process development, assay development, and non-clinical manufacturing workflows.

GENERAL CULTURE GUIDANCE Prepare complete TE07 medium by adding the supplied immune cell supplement to T Cell Serum-Free Basal Medium TE07. Add appropriate activation and expansion cytokines, such as IL-2, IL-7, and/or IL-15, according to the selected workflow. Optimize activation method, cell source, and scale-up conditions for the intended process.

General product characteristics

Parameter	General characteristic
Classification	Serum-free, xeno-free, exogenous growth factor-free, phenol red-free
Product type	T-cell maintenance, activation, and expansion medium
Compatible cell sources	Human PBMC and CBMC; compatible with T-cell expansion workflows
Core components	T Cell Serum-Free Basal Medium TE07 and Immune Cell Serum-Free Medium Supplement
Cell type	Human T lymphocytes
Form	Liquid medium kit
Sterility	Sterile-filtered
Intended use	Research and manufacturing use only; not intended for diagnostic or therapeutic use

PRODUCT INFORMATION

Ordering, storage and use

Product configurations

Catalog No.	Product name	Size
TE000-N081S	OptiVibro® T Cell Serum-Free Medium TE07 (phenol red-free)	100 mL kit
TE000-N081	OptiVibro® T Cell Serum-Free Medium TE07 (phenol red-free)	500 mL kit
TE000-N082	OptiVibro® T Cell Serum-Free Medium TE07 (phenol red-free)	1,000 mL kit

Catalog availability, configuration, and pack sizes should be confirmed at the time of order.

Typical kit contents

Component	Function	Storage
T Cell Serum-Free Basal Medium TE07 (phenol red-free)	Foundational medium for T-cell maintenance, activation, and expansion.	2-8°C; protect from light
Immune Cell Serum-Free Medium Supplement	Adds essential nutrients to complete the TE07 basal medium.	2-8°C; protect from light

Storage, transport and shelf life

Store basal medium and supplement at 2-8°C, protected from light. Transport below 25°C and protect from light. The basal medium and supplement have a 12-month shelf life when stored as directed; refer to the product label for the expiration date.

General handling recommendations

- Protect medium and supplement from prolonged exposure to ambient and fluorescent light.
- Equilibrate TE07 basal medium and supplement to room temperature for 1-4 hours before mixing.
- Prepare complete medium aseptically in a biosafety cabinet according to the applicable user manual.
- Store prepared complete medium at 2-8°C, protected from light, and use within two weeks.
- Do not use UV irradiation to sterilize the product or its packaging.

PREPARATION PRINCIPLE Add 20 mL/10 mL Immune Cell Serum-Free Medium Supplement to every 1,000 mL/500 mL T Cell Serum-Free Basal Medium TE07 and mix by gentle inversion. Supplement complete medium with the appropriate activation and expansion cytokines before use.

Quality and intended use

OptiVibro® products are manufactured under applicable quality systems. This datasheet provides general product information and does not replace the product label, user manual, Certificate of Analysis, or Safety Data Sheet. For research and manufacturing use only. Not intended for diagnostic or therapeutic use.