

LEADING LIFE TECHNOLOGIES

GENERAL SAFETY DATA SHEET

OptiVitro® T Cell Serum-Free Medium

Document number	SDS-TC-SFM-GEN-001
Version	1.0
Preparation date	August 20, 2026
Product form	Liquid cell culture medium
Intended audience	Laboratory, cell-culture, and manufacturing users

IMPORTANT - GENERAL TEMPLATE

This document is a general SDS content model adapted from the supplied Leading Life Technologies FBS SDS and the supplied OptiVitro® T Cell Serum-free Medium Series MSDS. It is not a manufacturer-issued, lot-specific regulatory determination. Leading Life Technologies must validate the exact product, formulation, lot, jurisdiction, and applicable requirements before release or operational use.

For laboratory research and manufacturing use only, as permitted by the product label. Not for direct administration to humans or animals.

SECTION 1 - IDENTIFICATION

Product identifier	OptiVibro® T Cell Serum-Free Medium
Other means of identification	T Cell Serum-Free Medium series; phenol red-free configurations may be available
Product / catalog no.	General medium family includes TE000-N021/N022/N021S; TE000-N031/N032/N031S; TE000-N041/N042/N041S; TE000-N051/N052/N051S; TE000-N061/N062/N061S; TE000-N071/N072/N074; and TE000-N081/N082/N081S. Confirm exact catalog number before final issue.
Recommended use	Laboratory and industrial cell-culture research, process development, and manufacturing use.
Uses advised against	Direct administration to the human body; diagnostic or therapeutic use unless specifically approved and labeled.
Supplier	Leading Life Technologies
Emergency telephone	Use the site-specific emergency contact established by Leading Life Technologies before official release.

SECTION 2 - HAZARDS IDENTIFICATION

GHS classification: Based on the supplied product MSDS, this product is not classified as hazardous under GHS.

Label elements: No GHS hazard pictogram, signal word, or hazard statement is required based on the supplied general product information.

Other hazards: No additional hazards identified. Handle using standard laboratory hygiene and aseptic cell-culture practices.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Product description	A proprietary serum-free T cell culture medium. The supplied reference describes no health-hazardous substances at concentrations requiring disclosure.
Components	Exact formulation is proprietary. Confirm any product-specific additive, supplement, cytokine, preservative, or dye content before official release.
Phenol red	Product family may include phenol red-free configurations; confirm the selected catalog number.

SECTION 4 - FIRST-AID MEASURES

Inhalation	Not expected to present an inhalation hazard under normal use. Move to fresh air if irritation occurs; seek medical advice if symptoms persist.
Skin contact	Wash with plenty of water. Remove contaminated clothing and seek medical advice if irritation develops.

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Seek medical advice if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if unwell.
Most important symptoms	No specific acute or delayed symptoms are known from the supplied general product information.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, foam, carbon dioxide, or dry chemical appropriate for the surrounding fire.
Specific hazards	No specific fire hazard identified. Decomposition products are not characterized.
Protective equipment	Firefighters should wear protective clothing and self-contained breathing apparatus when appropriate for surrounding fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Wear appropriate laboratory PPE. Avoid contact with eyes and skin.
Environmental precautions	Avoid release to drains and waterways.
Cleanup methods	Absorb spill with inert material, collect in a suitable container, clean the affected area, and dispose of waste in accordance with local procedures.

SECTION 7 - HANDLING AND STORAGE

Safe handling	Use standard aseptic and laboratory hygiene practices. Avoid unnecessary exposure to ambient or fluorescent light. Do not use UV irradiation to sterilize the product or its packaging.
Storage	Store at 2-8°C and protect from light. Keep container closed when not in use.
Transport	Transport below 25°C and protect from light.
In-use guidance	Follow the applicable product label and user manual. Confirm storage limits for prepared medium and any added supplements or cytokines.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits	No occupational exposure limits are established in the supplied general product information.
Engineering controls	Use adequate ventilation and standard biosafety / aseptic handling facilities as appropriate.

Eye protection	Safety glasses or chemical splash goggles as appropriate to the task.
Skin / hands	Laboratory coat and suitable disposable gloves.
Respiratory protection	Not normally required under expected conditions of use; use suitable protection if aerosols or poor ventilation are anticipated.
Hygiene measures	Wash hands after handling. Do not eat, drink, or apply cosmetics in the work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance / physical state	Liquid
Color / odor	Not specified in supplied product information
pH	7.10-7.70
Flash point / flammability	Not available; not expected to be flammable based on supplied general information
Solubility / density / vapor pressure	Not available
Explosive / oxidizing properties	Not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity / stability	Stable under normal ambient conditions and when stored as directed.
Hazardous reactions	No hazardous reactions identified in the supplied general information.
Conditions to avoid	Avoid incompatible handling conditions, excessive heat, light exposure, contamination, and conditions contrary to the product label.
Incompatible materials	No data available.
Hazardous decomposition products	No data available; see Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Based on the supplied product MSDS, no health hazards are identified from the available information under normal conditions of use. Acute toxicity, skin/eye irritation, sensitization, mutagenicity, carcinogenicity, reproductive toxicity, STOT, and aspiration hazard: no data available or not classified based on the supplied general product information.

Treat all laboratory chemicals and cell-culture media with appropriate care. The absence of classification does not replace product-specific risk assessment.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity, persistence and degradability, bioaccumulative potential, mobility in soil, and PBT/vPvB assessment: no data available in the supplied general product information. Avoid uncontrolled environmental

release.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of remaining product, contaminated absorbent, and packaging through an approved waste contractor in accordance with applicable local, state, and federal requirements. Follow institutional procedures for cell-culture and biologically contaminated waste where applicable.

SECTION 14 - TRANSPORT INFORMATION

UN number	Not assigned based on the supplied general product MSDS.
UN proper shipping name	Not regulated as dangerous goods based on the supplied general product MSDS.
Transport hazard class / packing group	Not assigned.
Environmental hazards	Not identified.
Special precautions	Maintain required storage temperature and protect from light. Assess the exact shipped configuration, including dry ice or other refrigerants, separately.

SECTION 15 - REGULATORY INFORMATION

The supplied general product MSDS identifies the product as non-hazardous under GHS. Regulatory obligations can vary by formulation, additives, jurisdiction, intended use, and destination. Leading Life Technologies must confirm applicable workplace, chemical-inventory, import/export, labeling, and waste requirements before official release.

SECTION 16 - OTHER INFORMATION

Document number	SDS-TC-SFM-GEN-001
Version	1.0
Preparation date	August 20, 2026
Revision summary	New general SDS adapted from supplied LLT FBS SDS template and OptiVibro® T Cell Serum-free Medium Series MSDS.
Abbreviations	CBMC: cord blood mononuclear cell; GHS: Globally Harmonized System; MSDS/SDS: Material Safety Data Sheet / Safety Data Sheet; PPE: personal protective equipment.

DISCLAIMER

The information in this document is prepared as a general guide based on the supplied reference material. It does not constitute a product specification, certificate of safety, regulatory determination, or warranty. Leading Life Technologies must verify the exact formulation, lot information, applicable storage and transport conditions, regulatory status, and contact details before issuing this document as an official SDS. The user is responsible for safe handling and compliance with applicable requirements.