

LEADING LIFE TECHNOLOGIES

GENERAL SAFETY DATA SHEET

OptiVitro® Serum-free Cell Cryopreservation Medium UC04

Document number	SDS-UC04-GEN-001
Version	1.0
Preparation date	August 20, 2026
Product form	Liquid cell cryopreservation medium
Intended audience	Laboratory, cell-culture, and manufacturing users

IMPORTANT - GENERAL TEMPLATE

This general SDS is adapted from the supplied Leading Life Technologies FBS SDS format and the supplied UC04 source SDS. It is not a manufacturer-issued, lot-specific regulatory determination. Leading Life Technologies must validate the exact product, lot, jurisdiction, supplier information, and applicable requirements before release or operational use.

For laboratory research, cell culture, diagnostic reagent manufacturing, or further manufacturing only, as permitted by the product label. Not for direct administration to humans or animals; not for food, drug, household, or therapeutic use unless specifically approved and labeled.

SECTION 1 - IDENTIFICATION

Product identifier	OptiVitro® Serum-free Cell Cryopreservation Medium UC04
Catalog numbers	UC000-N056; UC000-N056S
Recommended use	Laboratory research, cell culture, industrial production, or further manufacturing as permitted by label.
Restrictions on use	Not for direct administration to humans or animals; not for food, drug, household, or therapeutic use.
Responsible party	Leading Life Technologies
Emergency telephone	650-996-6078

SECTION 2 - HAZARD(S) IDENTIFICATION

GHS / OSHA classification	Not classified as hazardous based on available information for this general product category. Product-specific assessment is required.
Signal word	None required.
Hazard pictograms	None required.

Hazard statements	None required for a non-hazardous classification.
Other hazards	Contains 7.5% (v/v) DMSO. Avoid eye contact, prolonged skin contact, and aerosol generation. Treat all laboratory chemicals with caution.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Product description	Defined serum-free, protein-free, animal-component-free aqueous cryopreservation medium.
Cryoprotectant	Dimethyl sulfoxide (DMSO), 7.5% (v/v).
Hazardous ingredients	No additional hazardous ingredient identified for disclosure in the supplied general source information.

SECTION 4 - FIRST-AID MEASURES

Eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Obtain medical advice if irritation persists.
Skin contact	Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical advice for persistent irritation.
Inhalation	Move to fresh air. Obtain medical attention for persistent symptoms or breathing difficulty.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice if symptoms occur.
Medical attention	Treat symptomatically and provide product label and SDS to medical personnel.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, foam, carbon dioxide, or dry chemical as appropriate for surrounding fire.
Specific hazards	Not expected to be readily flammable. Heating or combustion may produce irritating decomposition products.
Protective equipment	Firefighters should wear suitable protective equipment and self-contained breathing apparatus when conditions warrant.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Wear gloves, protective clothing, and eye protection. Avoid splash and aerosol generation.
Cleanup	Absorb with inert material, place in a closed labeled container, then clean and disinfect the affected surface using a validated facility procedure.
Environmental precautions	Prevent uncontrolled release to drains, soil, or surface water.

SECTION 7 - HANDLING AND STORAGE

Safe handling	Use trained personnel and good laboratory practice. Avoid contact with eyes, skin, and clothing. Do not eat, drink, smoke, or mouth-pipette in handling areas.
Storage	Store at 2-8 °C and protect from light. Keep containers closed. Avoid fluorescent lamps and other light sources. Do not use UV irradiation during clean-area transfer.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational limits	No occupational exposure limit established for the product mixture in supplied source information.
Engineering controls	General laboratory ventilation is normally adequate. Provide eyewash and safety shower access.
Personal protection	Safety glasses or goggles, suitable laboratory gloves, and lab coat/protective clothing. Use respiratory protection if ventilation is insufficient.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color / odor	No data available.
pH	6.5-7.6
Water solubility	No data available.
Flash point / flammability	No data available; not classified as flammable based on supplied source information.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability	Stable under standard ambient conditions when stored as directed.
Hazardous reactions	No data available.
Conditions to avoid	Excessive heat, light exposure, contamination, and incompatible co-handled chemicals.
Incompatible materials	No data available.
Hazardous decomposition products	See Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological effects	Acute toxicity, skin/eye irritation, sensitization, mutagenicity, reproductive toxicity, and repeated exposure data: no data available in supplied source information.
Carcinogenicity	No component at or above 0.1% identified as known or possible carcinogen by IARC in supplied source information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity / persistence / bioaccumulation	No data available.
Mobility and PBT/vPvB	No data available; chemical safety assessment not required in supplied source information.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment	Dispose of remaining product, absorbents, and non-recyclable containers through a licensed waste-disposal company in accordance with local requirements.
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SECTION 14 - TRANSPORT INFORMATION

ADR/RID, IMDG, IATA	Not classified as dangerous goods according to transportation regulations in supplied source information.
UN number / packing group	Not applicable.
Environmental hazards	Not identified.

SECTION 15 - REGULATORY INFORMATION

Regulatory status	No specific regulatory information available in supplied source information. Confirm applicable local, national, and regional requirements before release.
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SECTION 16 - OTHER INFORMATION

Disclaimer	Information is provided as a guide and is not exhaustive. All materials and mixtures may have unknown hazards. Leading Life Technologies is not liable for injury or damage resulting from handling or contact with the product. This SDS does not constitute an express or implied warranty, including merchantability or fitness for a particular purpose.
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