

# Specification Sheet

<b>Product Name</b>	THERMO-GOLD™, liquid, sterile-filtered, 100 mL
<b>Product Number</b>	10001-01
<b>Product Brand</b>	Revive Organtech, Inc
<b>Storage Temp</b>	2-8°C
<b>TEST</b>	<b>SPECIFICATION</b>
<b>Appearance (Turbidity)</b>	Clear, Light Yellow Color
<b>Appearance (Form)</b>	Solution
<b>pH</b>	7.4 - 7.8
<b>Osmolality</b>	320-380 mOs/kg
<b>Sterility</b>	N/A
<b>Endotoxin Level</b>	N/A
<b>Instructions for use</b>	<p>THERMO-GOLD™ is a serum free, protein-free, animal origin-free, and fully defined cold preservation medium. Designed to prepare and preserve cells in cold temperature environments (1~4°C), THERMO-GOLD™ provides a safe, protective environment for cells, tissues, and organs during the flushing, storage, and transportation process. THERMO-GOLD™ contained proprietary components which are directly reducing the level of cold storage induced cell swelling, apoptosis, and necrosis and improving cold storage-cell viability and functionality. THERMO-GOLD™ is recommended for the preservation of primary hepatocytes, bone marrow, epithelial cells, endothelial cell, cord blood cells, PBMC, adult stem cells (MSCs), Embryonic and induced pluripotent stem cells (ESCs and iPSCs), tissue samples, and organs (liver, heart, lung, pancreas, and kidney). THERMO-GOLD™ is cGMP-mimic condition manufactured with high quality grade components.</p> <p><b>Preparation Instructions</b></p> <p>The THERMO-GOLD™ solution is ready-to-use and complete with no Additives required. Wipe down the outside of container with a 70% alcohol before opening as the contents are sterile. If the seal has been broken, do not use.</p> <p><b>Storage/Stability</b></p> <p>Store the THERMO-GOLD™ solution at 2-8°C and protected from light until ready to use.</p>

**Cold preservation for cells**

1. Suspended cell to be cryopreserved using mechanically or enzymatically dissociation.
2. Centrifuge the cells to obtained pellet.
3. Remove supernatant (remove the culture media as possible to reduce dilution of the THERMO-GOLD™ solution).
4. Isolation- Add cold (2-8°C) THERMO-GOLD™ solution to a cell concentration range of 0.5-10×10<sup>6</sup> cells/mL for standard cell culture protocol.
5. Start cold preservation of cells and store the cold preservation samples at 1~4°C.

**Finish the cold preservation of cells**

1. Dilute cell/ THERMO-GOLD™ mixture immediately with appropriate culture medium. The dilution culture medium should be 20~37°C. A dilution ratio of 1:10 (sample:culture medium) or greater is recommend.
2. Centrifuge the cells to obtained pellet. and add new warmed culture medium.
3. Plate cells appropriately and cultured the cells or use immediately.



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