

# HypoThermosol® FRS

## HYPOTHERMIC STORAGE AND SHIPPING MEDIA

**BEST-IN-CLASS, OPTIMIZED BIOPRESERVATION MEDIA FOR CELLS AND TISSUES**

**Pre-Formulated**

**Serum-Free**

**Protein-Free**

**USP/Highest Quality  
Components**

**cGMP Manufactured**

**FDA Master File**

**Sterility, Endotoxin, and  
Cell-Based Release Testing**



# HTS FRS

HypoThermosol® FRS is an optimized hypothermic (2-8°C) preservation media that enables improved and extended preservation of cells, tissues and organs. HTS FRS is uniquely formulated to address the molecular-biological response of cells during the hypothermic preservation process. HTS FRS includes key ions at concentrations that balance the intracellular state at hypothermic temperatures. Additional components include pH buffers, energy substrates, free radical scavengers, and osmotic/oncotic stabilizers.

### ORDERING INFORMATION

Product Name	Size	Part #	Retail Price	Price/mL
HypoThermosol® FRS	10mL vial	101373	\$21	\$2.10
HypoThermosol® FRS	100mL bottle	101102	\$165	\$1.65
HypoThermosol® FRS	500mL bottle	101104	\$750	\$1.50
HypoThermosol® FRS	500mL IV bag	101204	\$760	\$1.52

### RELATED PRODUCTS

Product Name	Size	Part #	Retail Price
CryoStor® CS2	100mL bottle	202102	\$260
CryoStor® CS5	100mL bottle	205102	\$270
CryoStor® CS10	100mL bottle	210102	\$280
CryoStor® CS10	10mL vial	210373	\$42
CryoStor® CS10	16mL vial	210374	\$50

## HypoThermosol® FRS Usage and Preservation Protocol

- Store HypoThermosol® FRS at 2-8°C, dry and protected from light until ready to use.
- Wipe down outside of container with 70% ethanol before opening.
- Contents are sterile. If seal has been broken, do not use and contact BioLife Solutions.
- HypoThermosol® FRS is ready to use. Simply replace culture medium with chilled (<10°C) HypoThermosol® FRS and maintain at 2-8°C.

*HypoThermosol® FRS is not designed as a cell culture medium and should not be used above 15°C or warmed to 37°C*

- At the end of the cold storage period, simply remove samples from the cold, decant the cold HypoThermosol® FRS and replace with warm (20-37°C) culture medium of choice.

### MATERIALS ARE MANUFACTURED UNDER cGMP

TEST	METHOD	LIMITS
Visual Inspection	Visual Inspection	Clear to slightly yellow solution with no visible particulates
pH	SOP 3006	7.5 to 7.7
Metabolic Activity Assay	SOP 5103	Cell viability following preservation is ≥ 75% of cells preserved in the internal standard at Day 1 recovery following preservation
Endotoxin	Kinetic Chromogenic USP <85>	≤ 1 EU/mL
Sterility	Membrane Filtration USP <71>	Sterile