



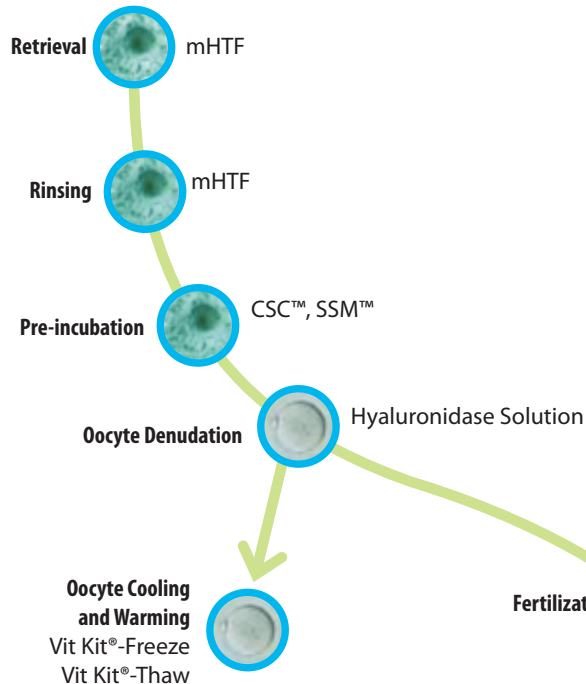
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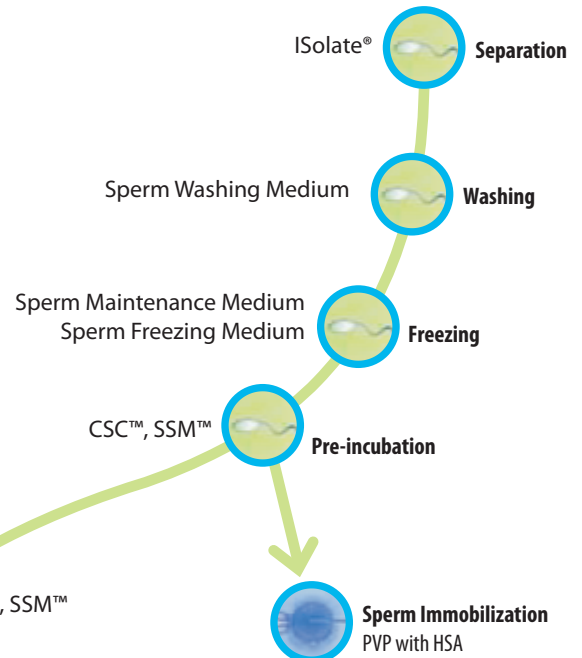
IrvineScientific
Grow With Us™

Irvine Scientific's Non-Sequential Culture Media System

OOCYTES



SPERM



Fertilization CSC™, SSM™

Embryo Culture to Day 3 CSC™, SSM™

CSC™, SSM™

Day 3 Embryo Transfer

PGD and / or Zona Drilling

Embryo Biopsy Medium
Tyrode's Solution Acidified

Cryopreservation

Vit Kit® - Freeze
Vit Kit® - Thaw
Embryo Freeze
Embryo Thaw

Embryo Culture to Day 5 CSC™, SSM™

Vit Kit® - Freeze
Vit Kit® - Thaw
Blastocyst Freeze
Blastocyst Thaw

Cryopreservation

Blastocyst Transfer CSC™, SSM™



ALSO AVAILABLE:

Protein Supplements - SSM™, HSA, DSS
Oil for Embryo Culture
Water for A.R.T. Use

KEY:

mHTF - Modified Human Tubal Fluid
SSM™ - Single Step Medium™

Human Tubal Fluid (HTF) Media and Modified Human Tubal Fluid (mHTF) Medium with Gentamicin

HTF Media are intended for use in assisted reproductive procedures which include gamete and embryo manipulation through Day 3 of development.



ASSISTED REPRODUCTIVE TECHNOLOGY

Each lot of HTF media receives a complete laboratory evaluation including mouse embryo testing, endotoxin level, pH, osmolality and sterility testing. All results are provided in a lot-specific Certificate of Analysis.

Irvine Scientific's commitment to excellence is demonstrated by our products' performance and adherence to the industry's highest quality standards. We were one of the first companies in the USA to receive ISO 13485:2003 quality systems certification, the new rigorous international quality assurance standard designed specifically for Medical Devices.

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HTF Medium is a synthetic, defined solution for use as a culture media through Day 3 of human embryo development as well as the processing of gametes. HTF is bicarbonate-based and is designed for use in a CO₂ incubator.

HTF Medium

- Available as liquid medium in 100 mL configuration. Custom configurations are available.
- Has a shelf life of 64 days from the date of manufacture.
- Requires protein supplementation.

Complete HTF Medium with SSS™

- Available as liquid medium in 2 x 20 mL configuration.
- Has a shelf life of 120 days from the date of manufacture.
- Ready to use, already supplemented with protein (10% SSS) for a final total protein concentration of 6 mg/mL.

mHTF Medium is a synthetic, defined solution for procedures which include the retrieval, handling and transfer of human gametes and embryos. mHTF uses a buffering system composed of a 21 mM HEPES and 4 mM Sodium Bicarbonate combination. This buffering system does not require the use of a CO₂ incubator.

mHTF Medium

- Available as liquid medium in 100 mL configuration. Custom configurations are available.
- Has a shelf life of 180 days from the date of manufacture.
- Requires protein supplementation.

HTF

Component	mM
Sodium Chloride	97.8
Potassium Chloride	4.69
Magnesium Sulfate, Anhydrous	0.20
Potassium Phosphate, Monobasic	0.37
Calcium Chloride, Anhydrous	2.04
Sodium Bicarbonate	25.0
Glucose	2.7
Sodium Pyruvate	0.33
Sodium Lactate	21.4
Gentamicin	10 µg/mL
Phenol Red	5 mg/L
Protein Supplementation	None (User Option)

Complete HTF with SSS

Sodium Chloride	91.44
Potassium Chloride	4.22
Magnesium Sulfate, Anhydrous	0.18
Potassium Phosphate	0.33
Calcium Chloride	1.84
Sodium Bicarbonate	22.50
Glucose	2.50
Sodium Pyruvate	0.30
Sodium Lactate	19.26
Phenol Red	4.5 mg/L
Gentamicin	9 µg/mL
Human Serum Albumin	5 mg/mL
Globulins	1 mg/mL

Modified HTF

Sodium Chloride	97.8
Potassium Chloride	4.69
Magnesium Sulfate, Anhydrous	0.20
Potassium Phosphate, Monobasic	0.37
Calcium Chloride, Anhydrous	2.04
Sodium Bicarbonate	4.0
HEPES	21.0
Glucose	2.78
Sodium Pyruvate	0.33
Sodium Lactate	21.4
Gentamicin	10 µg/mL
Phenol Red	5 mg/L
Protein Supplementation	None (User Option)

90125 - 100 mL HTF Media
90125 - 500 mL HTF Media
90126 - 100 mL mHTF
90126 - 500 mL mHTF

Continuous Single Culture™ Media

Culture media for human gametes and embryos during fertilization and growth of embryos through Day 5/6 of development.



ASSISTED REPRODUCTIVE TECHNOLOGY

Each lot of Continuous Single Culture Media receives a complete laboratory evaluation including mouse embryo testing, endotoxin level, pH, osmolality and sterility testing. All results are provided in a lot-specific Certificate of Analysis.

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90165 - 2 X 20 mL
CSC Complete

Continuous Single Culture

- Available in 60 mL configuration.
- Shelf life is 90 days from date of manufacture.
- Shelf life after opening is 8 weeks.
- Contains Gentamicin as the antibiotic.
- Requires protein supplementation.

Continuous Single Culture Complete

- Available in 2 x 20 mL Kits.
- Shelf life is 120 days from date of manufacture.
- Ready to use, pre-supplemented with Human Serum Albumin (10% v/v HSA), for a final total protein concentration of 5mg/mL.

Features and Benefits

- Continuous Single Culture Media is the only true continuous culture medium that is clinically proven to improve implantation rates over a sequential media system.
- For use from fertilization through Day 5/6 of development.
 - Optimized for use in a continuous culture system, without the need to refresh medium.
 - Only one medium to order, inventory and store.

Components

Salts & Ions

Sodium Chloride
Potassium Chloride
Potassium Phosphate
Calcium Chloride
Magnesium Sulfate

Buffer

Sodium Bicarbonate

Energy

Substrates

Sodium Pyruvate
Glucose
Sodium L-Lactate

Antioxidant

EDTA
Sodium Citrate

Dipeptide

Alanyl-glutamine

pH Indicator

Phenol Red

Antibiotic

Gentamicin

Amino Acids

Alanine
Asparagine
Aspartic Acid
Glutamic Acid
Glycine
Proline
Serine
Arginine
Cystine
Histidine
Isoleucine
Leucine
Lysine
Methionine
Phenylalanine
Threonine
Tryptophan
Tyrosine
Valine

Multipurpose Handling Medium Complete (MHM)

Buffered medium for oocyte retrieval, embryo transfer, micro-manipulation and gamete washing.

Multipurpose Handling Medium Complete (MHM)

- Available in 100 mL and 500 mL bottles
- MHM has a shelf life of 180 Days from date of manufacture

Features and Benefits

First IVF medium using a combination buffering system of HEPES and MOPS to optimize pH buffering and stability at room atmosphere:

- Maintains pH across a broader range of temperatures
- Contains key amino acids, glycine and taurine, to help maintain cellular homeostasis
- Formulated to promote optimal cell growth by providing a safe and secure environment



ASSISTED REPRODUCTIVE TECHNOLOGY

Each lot of Multipurpose Handling Medium Complete (MHM) receives a complete laboratory evaluation including mouse embryo testing, endotoxin level, pH, osmolality and sterility testing. All results are provided in a lot-specific Certificate of Analysis.

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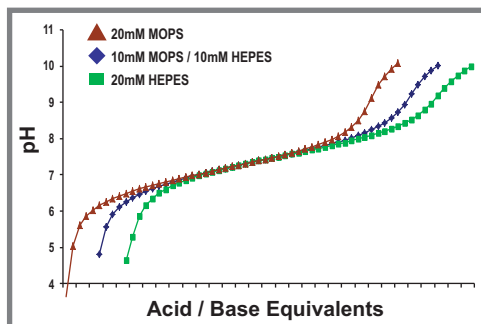
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90166 - 100 mL
90166 - 500 mL
MHM Complete

The first multipurpose dual buffering medium for use with gametes and embryos

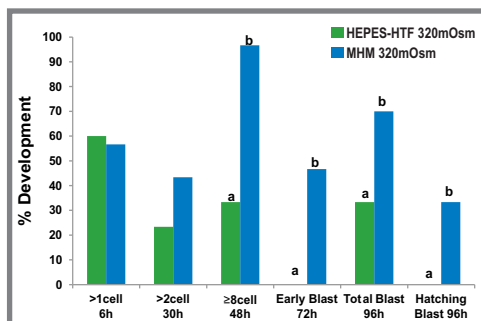
Minimizing stress imposed upon gametes and embryos and maintaining homeostasis during in vitro manipulations are important for optimizing ART success. A key to this endeavor is the use of an appropriate handling medium utilized for cellular manipulations outside of the laboratory incubator.

MHM maintains an appropriate and stable pH during gamete and embryo manipulation at room atmosphere by employing the first combination buffering system containing safe and effective pH buffers, HEPES and MOPS. By using these two proven pH buffers in specific ratios, pH buffering can be optimized for gametes and embryos and can lower amounts of each buffer utilized.



Use of a combination buffering system containing HEPES and MOPS, such as MHM allows adjustment of pKa, or optimal buffering capacity, not available in mono-buffered media. This permits formulation of a custom medium with a lower individual buffer concentration, with pH buffering optimized for use with gametes and embryos. This phenomenon is demonstrated by comparing pH titration curves.

MHM also contains key beneficial amino acids, glycine and taurine, which maintain cellular homeostasis, in part, by serving as potent osmolytes, thereby providing a safer environment for cellular manipulation.



Inclusion of evidence-based amino acids, glycine and taurine, found in MHM helps maintain cellular homeostasis, in part, by acting as potent osmolytes. These potent osmolytes in MHM provide added protection and permit embryo development in media with high osmolality that may be obtained via common laboratory practices during cell manipulation. Different superscripts within a developmental time point indicated a significant difference in development.

MHM is recommended for in vitro procedures involving manipulation of gametes and embryos at room atmosphere, such as sperm washing, oocyte recovery, micromanipulation and embryo transfer to maintain a stable and appropriate pH. MHM should be supplemented with protein and warmed to ~37°C prior to use.

Oil for Embryo Culture

Oil for Embryo Culture, a sterile light mineral oil, is intended for use as an overlay when culturing in reduced volumes of media to prevent evaporation and to protect the media from changes in osmolality and pH.



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Oil for Embryo Culture

- Available in 100 mL and 500 mL bottles.
- Oil for Embryo Culture has a shelf life of 2 years from date of manufacture, when stored away from light, at 15° - 30°C.
- Ready-to-use; washing not required.

Features and Benefits

- Each lot of Oil for Embryo Culture is tested for:
 - Endotoxin (USP < 85 >)
 - Bio-compatibility by MEA (one-cell)
 - Sterility (USP < 71 > and CFR Title 21 part 610.12)
- Sterile filtered and aseptically processed, in a Class 100 environment, which has been validated to meet a Sterility Assurance Level (SAL) of 10^{-3} .

Cryo Bio System
Groupe I.M.V. Technologies



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