



Streamline Your Process.  
Safeguard the Future.

# Vit Kit-NX

ADVANCED VITRIFICATION SOLUTIONS

# Reduce Stress on Oocytes and Embryos with a Continuous System

Building on the benefits of Continuous Single Culture Medium (CSCM) and Multi-purpose Handling Medium (MHM), Vit Kit-NX brings the vitrification process in line with both the culture and handling steps of IVF by eliminating the need to transfer precious specimens to different media formulations for vitrification.

Culture  
with CSCM

Handling  
with MHM

Vitrification  
with Vit Kit-NX

Reduce stress on embryos and oocytes, simplify laboratory processes, and achieve high survival rates.

# How Modern Is Your Media?

Vit Kit-NX	VS	Traditional Vit Media
<b>CSCM Base</b> Designed for human embryo culture		<b>M199 Base</b> Designed for chick embryo fibroblasts
<b>HEPES/MOPS</b> Dual-buffered system		<b>HEPES</b> Mono-buffered system

There is simply nothing more important than protecting precious human oocytes and embryos at every stage of the IVF cycle.

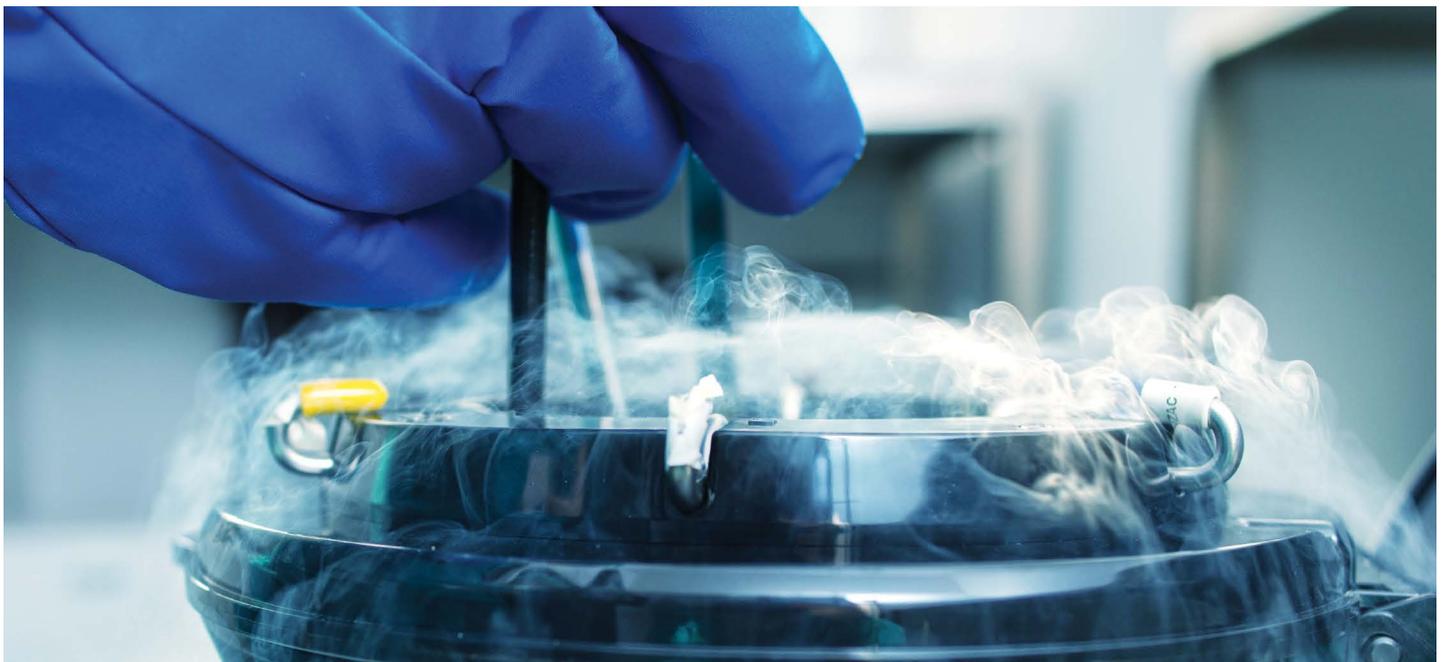
To help ensure your clients achieve their goals for a healthy family, it is crucial that vitrification seamlessly integrate into the IVF cycle and safeguard embryos for the future.

While effective, many vitrification kits feature an M199 base, which is a formulation originally designed for chick embryo fibroblasts—not human embryos—as well as a mono-buffered system. Though sufficient, these solutions could benefit from enhancement to ensure formulas are targeted to support human embryos, as well as create a steady, continuous system that achieves high survival rates.

Vit Kit - Freeze NX and Vit Kit - Warm NX are the latest advancements in vitrification media aimed to streamline and

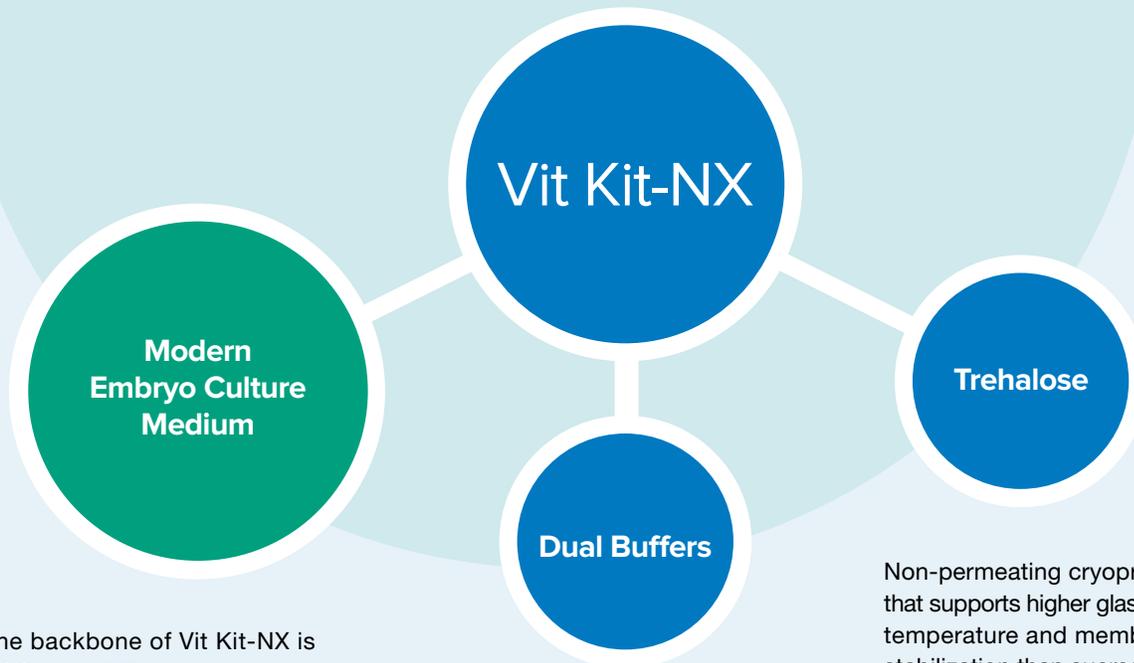
simplify your processes. Each multi-step kit features a collection of formulations derived from current IVF media tailored specifically for the vitrification process. By building on the benefits of contemporary IVF media for use in vitrification, Vit Kit-NX brings the vitrification process in line with both the culture and handling steps of IVF.

The enhanced formulas deliver consistent results, including high oocyte and embryo survival rates, while also offering an effective, flexible, and economical media ideally suited for the nuanced needs of the modern IVF laboratory.



# Enhanced IVF Media for Better Vitrification

Vit Kit-NX integrates key ingredients used in the culture and handling steps of IVF with recent advancements in vitrification to provide a next-generation cryopreservation solution.



The backbone of Vit Kit-NX is CSCM, an IVF medium intended for conventional fertilization, as well as culture from Day 1 and beyond.

CSCM delivers a consistent, embryo-friendly environment through the IVF cycle.

Vit Kit-NX is buffered by both HEPES and MOPS to provide a more secure pH environment for oocytes and embryos during vitrification.

Non-permeating cryoprotectant that supports higher glass transition temperature and membrane stabilization than sucrose.

## Founded on a Trusted Formula

The new Vit Kit-NX retains the key benefits of the original Vit Kit, including:

- DMSO and EG as permeating cryoprotectants
- Dextran serum supplement as a protein source
- Gentamicin as an antibiotic



# Flexible Vitrification Solutions for the Modern IVF Laboratory

## Vit Kit - Freeze NX

Vit Kit - Freeze NX is an adaptable, cost-effective system for use in the vitrification of oocytes, pronuclear zygotes, cleavage stage embryos, and blastocyst stage embryos. Each kit can be used for up to 50 freezing applications for oocytes and 60 applications for embryos.

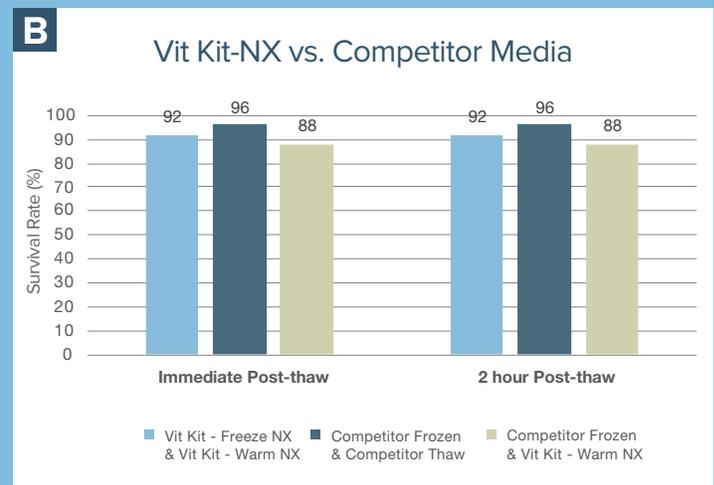
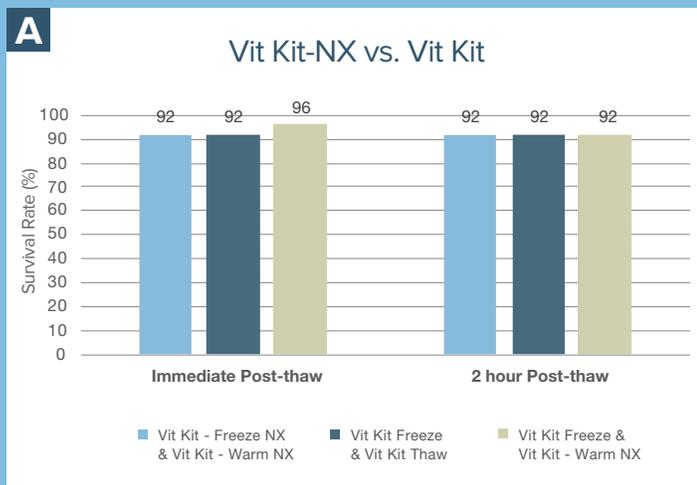
- Reduce costs by using less media with our microdrop protocol
- Minimize waste with a one-year shelf life for unopened products and two-week shelf life for open products
- Ready to use—no mixing required
- Compatible with any vitrification device
- Contains no phenol red

## Vit Kit - Warm NX

Vit Kit - Warm NX is an adaptable, cost-effective system for use in the thawing of oocytes, pronuclear zygotes, cleavage stage embryos, and blastocyst stage embryos. Each kit can be used for up to 12 warming applications with embryos or oocytes.

- Simplify the workflow with a flexible kit configuration
- Minimize waste with a one-year shelf life for unopened products and two-week shelf life for open products
- Ready to use—no mixing required
- Contains no phenol red

## Versatile Formulas Deliver Consistent Survival Rates Across Different Vitrification Media



### Vit Kit - Warm NX was capable of warming human oocytes frozen in Vit Kit (A) and a top competitor's vitrification media (B).

Previously frozen MII oocytes were re-frozen in different vitrification media with the Cryolock device. MII oocytes were counted towards the survival rate and were recovered in CSCM-NXC for the immediate and 2h post-thaw time points. Study was performed in collaboration with World Egg Bank in Phoenix, Arizona, USA.

## Ordering Information

Media	Catalog #	Size*	Additional Information
Vit Kit - Freeze NX	90188	3x1 mL Equilibration Solution	- Contains Dimethyl sulfoxide (DMSO) and ethylene glycol (EG)
		3x1 mL Vitrification Solution	- Supplemented with 20% (v/v) Dextran Serum Supplement (DSS) for a final concentration of 10 mg/mL HSA and 4 mg/mL Dextran
		1x1 mL Washing Solution	- 50 applications with oocytes - 60 applications with embryos
Vit Kit - Warm NX	90183	6x2 mL Thawing Solution	- Supplemented with 20% (v/v) Dextran Serum Supplement (DSS) for a final concentration of 10 mg/mL HSA and 4 mg/mL Dextran
		2x1 mL Dilution Solution	- 12 applications with oocytes and embryos
		4x1 mL Washing Solution	

## Discover the FUJIFILM Irvine Scientific Advantage

With more than four decades of cell culture experience, FUJIFILM Irvine Scientific has cultivated deep industry knowledge, advanced technical expertise, superior customer service, and reliable results—positioning us as a trusted partner of ART professionals across the world.

From novel IVF media solutions to innovative technology, FUJIFILM Irvine Scientific delivers the most advanced, economical, and flexible range of products for the modern IVF laboratory.

