



SAGE Vitrification Solutions

- Formulated for all stages of embryo development*
- Vitrification increases fertility options for women
- MOPS buffered formulation of HTF Medium uses proven formulation strategies consistent with Quinn's Advantage™ Series of ART products¹
- Blastocyst survival rates of 96% with vitrification vs. 91% for slow freezing²
- MII Oocyte Survival rate of 94% with 66.6% fertilization rate³

¹Quinn P, (2003) Media used in the assisted reproductive technologies laboratories. In: A Color Atlas for Human Assisted Reproduction: Laboratory and Clinical Insights. Eds P. Patrizio, MJ. Tucker, V.Guelman, Lippincott Williams Wilkins, Philadelphia, Chapt 15, pp 241-256.

²Liebermann J, Tucker MJ. (2006) Comparison of vitrification and conventional cryopreservation of day 5 and day 6 blastocysts during clinical application. Fertil. Steril. 86: 20-26.

³Selman (2010) Pregnancies and deliveries after injection of vitrified-warmed oocytes with cryopreserved testicular sperm. Ferti. Steril. Vol 94 No7 2927-2929.

*not cleared in the USA (Limited studies are available in the literature describing vitrification of oocytes. The decision to use product for vitrification of oocytes is dependent on the individual IVF center's review of the literature as to safety and efficacy for this indication as well as governmental restriction.





SAGE Vitrification Solutions

Product Overview

SAGE™ vitrification solutions enable ultra-rapid cooling and recovery of human embryos, which eliminates ice crystal formation, resulting in increased human embryo survival rates. Our vitrification solutions increase fertility options for women undergoing various treatments.

Quality Assurance Tests

- Endotoxin
- Biocompatibility by one-cell mouse embryo assay (MEA)
- Sterility by the current USP <71> Sterility Test

Ordering information

SAGE™ Vitrification Kit

The Vitrification Kit is intended for the ultra-rapid vitrification of human embryos in ART procedures. This kit is designed to be used in conjunction with the SAGE IVF Vitrification Warming Kit for warming and recovery of specimens:

- Equilibration Solution (ART-8025-A) is MOPS buffered solution of modified HTF containing non-essential and essential amino acids, gentamicin sulfate (0.01 g/L), 7.5% (v/v) each of DMSO and ethylene glycol and 12 mg/mL human albumin.
- Vitrification Solution (ART-8025-B) is a MOPS buffered solution of modified HTF containing non-essential amino acids, gentamicin sulfate (0.01 g/L), 15% (v/v) each of DMSO and ethylene glycol, 12 mg/mL human albumin, and 0.6 M sucrose.

Reference Number	Description	Unit Size
ART-8025	SAGE Vitrification Media Kit includes: Equilibration Solution Vitrification Solution	1 x 2 mL 1 x 2 mL

SAGE™ Vitrification Warming Kit

Vitrification Warming Kit is intended for the recovery of human embryos that have been vitrified using the SAGE IVF Vitrification Kit:

- 1.0 M Sucrose Warming Solution (ART-8030-A) is a MOPS buffered solution of modified HTF containing non-essential and essential amino acids, gentamicin sulfate (0.01 g/L), 1.0 M sucrose and 12 mg/mL human albumin.
- 0.5 M Sucrose Warming Solution (ART-8030-B) is a MOPS buffered solution of modified HTF containing non-essential and essential amino acids, gentamicin sulfate (0.01 g/L), 0.5 M sucrose and 12 mg/mL human albumin.
- MOPS Solution (ART-8030-C) is a MOPS buffered solution of modified HTF containing non-essential and essential amino acids, gentamicin sulfate (0.01 g/L) and 12 mg/mL human albumin.

Reference Number	Description	Unit Size
ART-8030	SAGE Vitrification Warming Kit includes: 1.0 M Sucrose Warming Solution 0.5 M Sucrose Warming Solution MOPS Solution	1 x 4 mL 1 x 2 mL 1 x 6 mL