CRYOTOP



About Us

Kitazato is a Group of Companies founded in Japan in 1996 involved in the manufacture of reproduction biotechnologies products and recognized as a leader in research and development of new devices in Assisted Reproduction Techniques.

Kitazato products are single-use, disposable and packaged sterile. Each component comes from highest quality raw materials and has passed through rigorous quality controls for acceptance.

Kitazato started its international business in 2003 and has obtained the CE mark Medical Device complying with Directive 93/42/EEC. After many years of success producing and selling these products in the most appreciated and awarded IVF clinics in Japan, now they are available worldwide.

Kitazato complete product line for IVF includes:

- Oocyte Retrieval Needles
- Embryo Transfer Catheters
- Intra Uterin Insemination Catheters
- Micropipettes ICSI, Holding, Biopsy
- Warming-Cooling Plates for Microscopes
- Vitrification and Thawing Solutions
- Cryotop

References

- Kato O., Neonatal outcome and birth defects in 6623 singletons born following minimal ovarian stimulation and vitrified versus fresh single embryo transfer. European Journal Obstetricts & Gynecol and Reproductive, 2011.
- Zhu D., Vitrified-warmed blastocyst transfer cycles yield higher pregnancy and implantation rates compared with fresh blastocyst transfer cycles-time for a new embryo transfer strategy? Fertility & Sterility, 2011.
- Trokudes KM., Comparison outcome of fresh and vitrified donor oocytes in an egg-sharing donation program. Fertility & Sterility Vol.95 1996-2000, 2011.
- Inoue F., Hidroxypropyl Cellulose as a macromolecular supplement for cryopreservation by vitrification of bovine oocytes and blastocysts and human oocytes. ESHRE and ASRM 2011.
- Schollcraft WB., Clinical application of comprehensive chromosomal screening at the blastocysts stage. Fertility & Sterility Vol.94 1700-1706, 2010.
- Cobo A., Use of cryo-banked oocytes in an ovum donation program: a prospective, randomized, controlled, clinical trial. Human Reproduction, 2010.
- Rienzi L., Embryo development of fresh "versus" vitrified metaphase II oocyte after ICSI: a prospective randomized sibling-oocyte study. Human Reproduction Vol.0 1-8, 2009.
- Nagy P., Clinical evaluation of the efficiency of an oocyte donation program using egg cryo-banking. Fertility & Sterility Vol.92-2 520-526, 2009.
- Inoue F., High post-warm survival of bovine oocytes vitrified with serum-free medium containing hydroxypropyl cellulose. Low Temp. Med. 2009
- Cobo A., Vitrification: an effective new approach to oocyte banking and preserving fertility in cancer patients. Clin Trans Oncolo 10:268-273, 2008.
- Chang C., Human oocyte vitrification: in-vivo and in-vitro maduration outcomes. Reproductive BioMedicine Online 17:684-688, 2008.
- Cobo A., Kuwayama M., Comparison of concomitant outcome achieved with fresh and cryopreserved donor oocytes vitrified by the Cryotop method. Fertility & Sterility J89(6): 1657-64, 2008.
- Kuwayama M., Highly efficient vitrification for cryopreservation of human oocytes and embryos: The Cryotop method. Theriogenology 67, 73-80, 2007.
- Al-Hasani S., Three years of routine vitrification of human zygotes: is it still fair to advocate slow-rate freezing? Reproductive BioMedicine Online 14:288-293, 2007
- Vajta G., Kuwayama M., Improving cryopreservation systems. Theriogenology 65(1), 236-44, 2006.
- Kuwayama M., Highly efficient vitrification method for cryopreservation of human oocytes. Reproductive BioMedicine Online 11:300-308, 2005.
- Kyono K., Successful pregnancy and delivery after transfer of a single blastocyst derived from a vitrified mature human oocyte. Fertility & Sterility Vol.84-4 1017, 2005.
- Katayama K.P., High survival rate of vitrified human oocytes results in clinical pregnancy. Fertility & Sterility Vol.80-1 223-224, 2003.

The Cryotop Method

Cryotop is the special vitrification container consisting of a fine, thin film strip attached to a hard plastic handle for the minimum volume cooling to realize highest cooling & warming rates resulted in 99% post-thaw survival. The hard plastic cover is attached to protect the oocytes and embryos on strip from not only physical damage but also virus contamination during storage in LN2. The Cryotop method is simple, reliable, universal, safe and easy for anyone. The Cryotop method has applied to more than 1.000.000 clinical cases for oocytes/embryos were cryopreservation method for these 12 years with unbelievable excellent results in more than 60 countries (1.600 ivf centers). The Cryotop method is the most trustworthy cryopreservation method for oocytes and embryos proved by the best survival rates, and created huge number of safety birth results.

Vitrification Solutions have been improved with new components as HPC (Hidroxypropyl Cellulose) and Threalose, obtaining synthetic media absolutely free from animal derived protein. This new media shelf life is 6 months from the date of manufacture.

Ultra-rapid Cooling "Vitrification"

Ultra rapid Cooling Vitrification is revolutionary cryopreservation technique and it makes solidification of cells without ice crystal formation by using safety concentrations of cryoprotectans and extremely high cooling and warming rates. Ultra-rapid Cooling Vitrification brings sensitive oocytes and any stages of embryos the chances for dramatically higher survival, development rates, and healthy birth than the conventional slow-freezing and other vitrification method.

Cryotop Clinical Documentation		n	% survival	% pregnancy
Zhu 2011	Blastocysts	442	86	55
Cobo 2010	Oocytes	3286	93	55
Rienzi 2010	Oocytes	124	97	39
Tseng-KaiLin 2010	Embryos D2-D3	298	96	36
Nagy 2009	Oocytes	153	89	75
Cobo 2008	Oocytes	797	96	63
Al-Hasani 2007	PN Embryos D1	339	89	37
Kuwayama 2005	Blastocysts	6328	90	53
Kuwayama 2005	PN Embryos D1	5881	100	
Teramoto 2004	Blatocysts	197	100	58



NEW COMPOSITION WITH HPC AND THREALOSE **IMPROVED EFFICIENCY** SYNTHETIC MEDIA

Vitrification Kit



- 1 Vial 1.5 ml of BS (Basic Solution)
- Vial 1.5 ml of ES (Equilibration Solution)
- Vial 1.5 ml of VS (Vitrification Solution)
- Cryotop
- Repro Plate

The solutions are provided in vials intended for single use. One kit vitrifies up to 16 oocytes or embryos.

Thawing Kit

VT602-KIT - Kitazato Thawing Kit



- 2 Vial 4.0ml of TS (Thawing Solution) 1 Vial 4.0ml of DS (Diluent Solution)
- Vial 4.0ml of WS (Washing Solution)
- Petri Dish
- Repro Plate

The solutions are provided in vials intended for single use. One kit warms up to 16 oocytes or embryos.



VT601-0

Kitazato Vitrification Solutions Only



VT602-0

Kitazato Thawing Solutions Only



CRYOTOP

Kitazato Cryotop, pack of 10 pieces



REPROPLATE K-1

Reproplate, pack of 10 pieces



COOLING RACK

Polystyrene container for Vitrification

Quality Control

- MEA ≥ 80%
- Endotoxin < 0,25 EU/ml
- pH 7.2 7.6
- Osmolarity
- Sterility
- Certificate of Analysis available on website

Storage 4-8°C



Distributed by: Luis Buñuel, 1 Oficinas Pta. 4 46015 Valencia SPAIN Tel (+34) 963 056 395 Fax (+34) 963 056 396 info@dibimed.com

www.dibimed.com



Manufactured by:
Kitazato Biopharma Co. Ltd.
278-7 Mitojima, Fuji-shi
Shizuoka 416-0921 JAPAN
Tel 0545-66-2202
Fax 0545-60-5772
trading@kitazato-biopharma.com
www.kitazato-biopharma.com

CRYOTOP