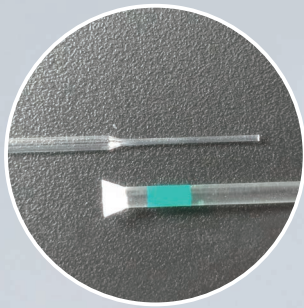




# OPS vitrification of VitaVitro

## The original is the best



## VITAVITRO® STRAW SET

Introduced by Professor Gábor Vajta in 1998 as the first purpose-designed tool for high-rate cooling and warming (cooling rate 22.500°C/min, Vajta et al., 1998). Combined with a pre-cooled container straw, the OPS was the first technique that resolved the problem of sterile storage in liquid nitrogen (Vajta et al., 1999). The OPS technique is highly efficient for the cryopreservation of matured oocytes and all preimplantation embryo development stages in humans.

### SIGNIFICANT ACHIEVEMENTS:

- The **FIRST** human baby after high-speed vitrification (*Kuleshova et al., 1999*)
- The **FIRST** cloned animal after embryo cryopreservation (*Tecirlioglu et al., 2003*)
- The **FIRST** calf after cryopreservation of immature oocytes (*Vieira et al., 2002*)
- The **HIGHEST** survival-developmental rates after cryopreservation of human ES cells (*Reubinoff et al., 2001*)

### ACCESSORIES



Heat Sealer



Container Cutter



Teeth Forceps  
(Titanium Alloy)

The  
**VitaVitro**  
Straw Set is  
available in the USA  
and other selected  
countries around  
the world.

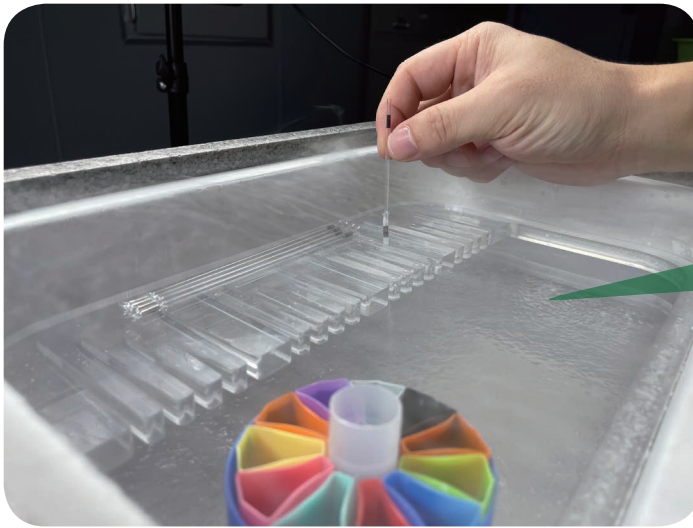
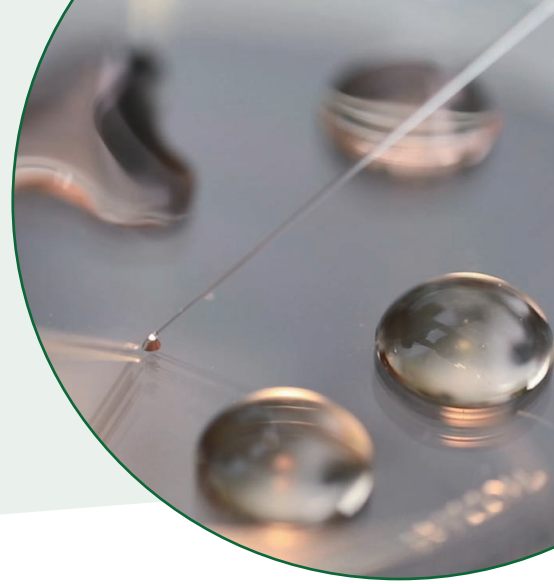


## SIMPLE OPERATION

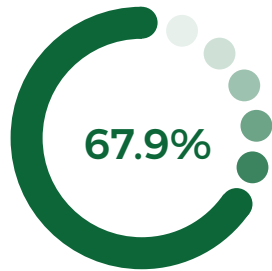
Utilizes capillary action for simple loading with a defined solution volume.  
No attachment to sticky surfaces, as oocytes and embryos float in a solution column.

Warming and expelling are smooth and easy and happen under complete visual control.

✔ Please note: success is only guaranteed with the use of Vitavtro Vitrification and Warming kits.



Purpose designed Cooling Box for OPS



Positive hCG rate



Live birth per cryopreserved embryo transfer rate\*

(\*age<35)

\*human test performed by a third-party independent reproduction center. USA

## REFERENCE

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Vieira A, Mezzalana A, Barbieri D, Lehmkuhl R, Rubin M, L. & Vajta G. (2002). *Cryobiology*, 45(1), 91-94.
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Tecirolglu RT, French AJ, Lewis IM, Vajta G, Korfiatis NA, Hall VJ, Ruddock NT, Cooney MA, Trounson AO (2003). *Reprod Fertil Dev*. 15(7-8), 361-366.
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