

MediCult Vitrification^{with McGill Cryoleaf™}

Efficient cryopreservation of oocytes and embryos

- Universal protocol for oocytes and embryos
- Simple and easy-to-follow protocol
- Ready-to-use DMSO free media



Open system - for maximum cooling rate

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Vitrification

Vitrification is an ultra-fast cooling method. High cryoprotectant concentrations in the media rapidly dehydrates the cells, before they are plunged into liquid nitrogen. This rapid cooling solidifies the cell into a "glass-like state" without any ice formation. The vitrification technique has proven efficient for oocytes and all stages of embryos.

MediCult Vitrification media have been designed for vitrification of oocytes and embryos. The media contain

- 12mg/ml HSA
- PROH and EG (permeable)
- Sucrose (impermeable)

McGill Cryoleaf™

The McGill Cryoleaf™ is a vitrification and storage device designed for easy handling. The system is open to achieve maximum cooling rate. Safety during storage has been improved, as the vitrified cells are protected from mechanical stress and contamination by a closed cover system. McGill Cryoleaf™ is CE marked.



Benefits of MediCult Vitrification Media

- Universal protocol for oocytes and embryos
- Simple and easy-to-follow protocol
- Ready to use media
- DMSO free

Contact

For further information on products or possibilities of arranging a hands-on vitrification workshop, please visit www.origio.com to find your local ORIGIO MediCult Media distributor or contact ORIGIO directly at the address listed below.

Clinical data with DMSO free media

	Number	Survival rate (%)	References
2PN	13	100	Naether et al., 2008, RBM Online
	23	69.6	Unpublished data
Oocytes	298	91.8	Cao et al., 2009, Fert. Steril.
	286	78.9	Fadini et al., 2009, RBM Online
	180	93.9	Chian et al., 2005, Fert. Steril.
	103	96	Valluzo et al., 2009, Fert. Steril.
	81	77.8	Sheehan et al., 2010, Hum. Reprod.
Embryos	123/29	91.1/89.7	Dundure et al., 2010, Hum. Reprod.
	97	90	Phillips et al., 2010, ALPHA, Budapest
	83	85.5	Son et al., 2009, Fert. Steril.
Blastocysts	50	80	Unpublished data
	40	94	Dal Canto et al., unpublished data

Optimize results by:

- Vitrifying good material only
- Mixing vials well before use
- Max 60sec exposure to vitrification medium
- Loading cells onto device in <1µl volume
- Keeping vitrified cells under LN2 at all times

Quality control testing

- Sterility tested (Ph. Eur., USP)
- Endotoxin tested ≤ 0.5 EU/ml (Ph. Eur., USP)
- Mouse Embryo Assay (MEA) tested
- pH tested (Ph. Eur., USP)
- Osmolality

Note: The results from each batch are stated on a Certificate of Analysis, which is available on www.origio.com.

Catalog No.

1228 4001	MediCult Vitrification Cooling, 4x1 ml (CE)
1229 5002	MediCult Vitrification Warming, 5x2 ml (CE)
4077 1401	McGill Cryoleaf™ 14 x McGill Cryoleaf™

The products are provided in vials intended for single use. The products are supplied with a comprehensive package insert.