



# DMSO Free Vitrification Media

## For Oocytes, Embryos and Blastocysts

- Simple and easy-to-follow protocol
- Ready to use media
- DMSO free



# Medicult Vitrification Media

## Efficient Cryopreservation of Oocytes, Embryos and Blastocysts

### Vitrification

Vitrification is a cryopreservation technique based on ultrafast cooling. High cryo-protectant 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 Cooling and Warming

The media has been designed for vitrification, storage and warming of oocytes and embryos. It contains 12mg/ml HSA and the cryoprotectants PROH, EG and Sucrose.

### Benefits of MediCult Vitrification Media

- Simple and easy-to-follow protocol
- Excellent choice of carriers
- Ready to use media
- DMSO free

### Catalog No.

1228 4001	MediCult Vitrification Cooling, 4 x 1ml
1229 5002	MediCult Vitrification Warming, 5 x 2ml

Note: The products are provided in vials intended for single use.

### Recommended Vitrification Carriers

#### VitriFit (pack of 20)

4278 2001	VitriFit Clear
4279 2001	VitriFit Blue
4280 2001	VitriFit Green
4281 2001	VitriFit Yellow
4282 2001	VitriFit Lime
4284 2001	VitriFit Purple
4285 2001	VitriFit Orange
4286 2001	VitriFit Pink

### Clinical data with DMSO free media

	Number	Survival rate (%)	Reference
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	23	69.6	Unpublished data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.
	40	97.5	Fernandez et al., 2007
Blastocysts	50	80	Unpublished data
	40	94	Dal Canto et al., unpublished data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
- Maximum 60 seconds exposure to vitrification medium
- Loading cells onto open device in <1 µl volume
- Keeping vitrified cells under LN<sub>2</sub> at all times

### Quality control testing

- Sterility tested
- Endotoxin tested ≤ 0.5 EU/ml
- Mouse Embryo Assay (MEA) tested
- pH tested
- Osmolality

Note: The results from each batch are stated on a Certificate of Analysis, which is available on [fertility.coopersurgical.com/batch-certificates](http://fertility.coopersurgical.com/batch-certificates)

### Contact

For further information on products or the possibility of arranging a hands-on vitrification workshop, please visit [coopersurgical.com](http://coopersurgical.com) to find your local distributor or contact CooperSurgical directly.