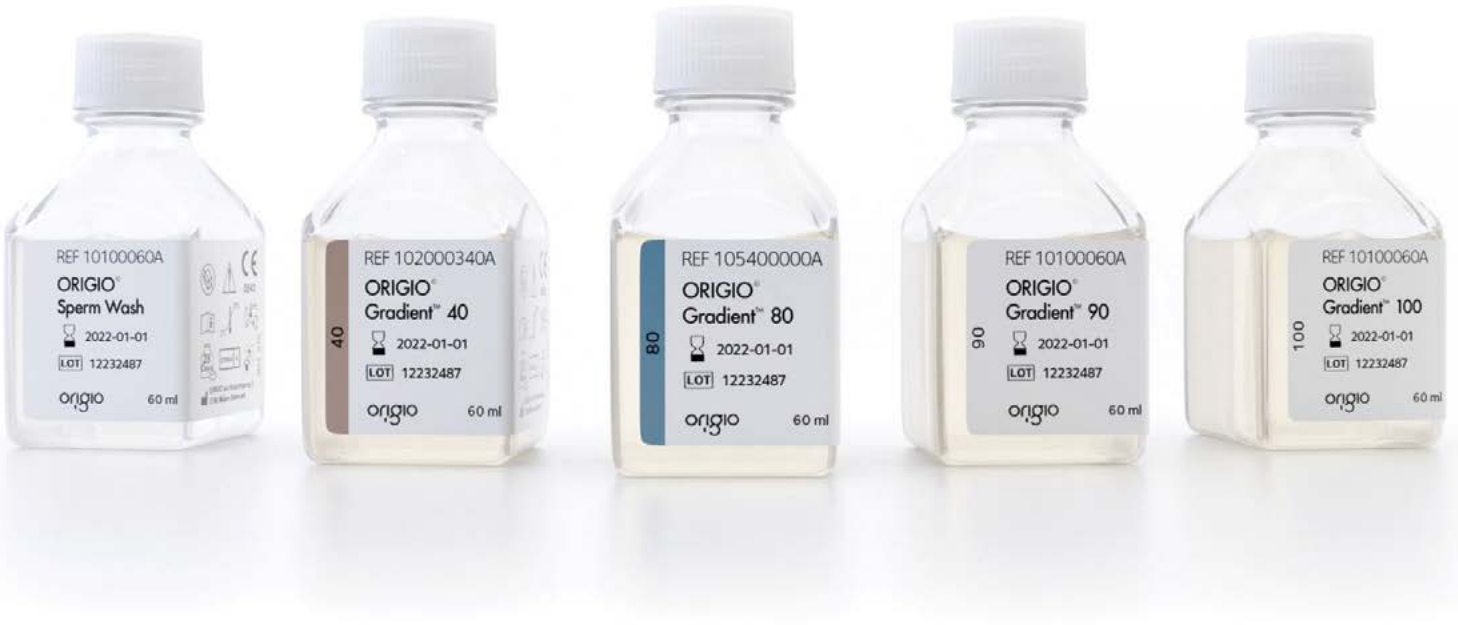
ORIGIO®Gradient Series™

Optimize sperm function



CooperSurgical®
Fertility Solutions

ORIGIO® Gradient Series

Innovative formulation[1,2] drawing on the latest scientific knowledge[3,4] of sperm function.

- High pH to mimic *in vivo* physiological conditions and stimulate higher motility
- High HSA concentration to support optimal sperm function
- Designed for use outside a CO_2 controlled environment
- Antioxidants to minimize Reactive Oxygen Species formation
- Can be used for IUI, IVF and ICSI

Product Specifications

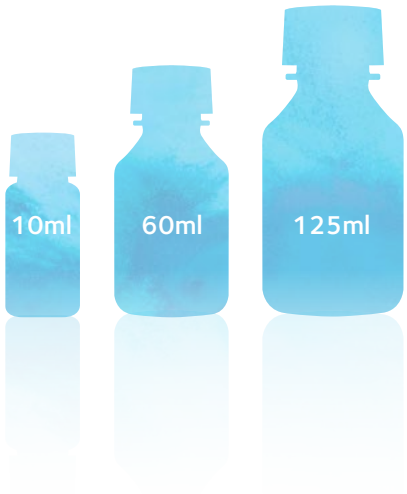
- Ready to use
- HSA 10mg/ml in Sperm Wash, 5mg/ml in gradients 90%, 80% and 40%
- pH 8-8.5 at room temperature
- HEPES buffered and requires no preequilibration*
- Higher bicarbonate levels to support motility and sperm function
- Osmolality differentiated through gradients to protect sperm during isolation[3,4]
- Endotoxin ≤0.8 EU/ml for gradients, <0.15 EU/ml for wash
- Shelf life after opening: 28 days

*used at room temp without the need for a CO_2 incubator function

Components

- Physiological salts
- Pyruvate
- Glucose
- Bicarbonate
- HEPES
- EDTA
- Taurine
- Citrate
- Gentamicin
- HSA

Product Code	Product Name	Volume
84000060		60ml
84002060	ORIGIO Gradient™ 100	2 x 60ml
84004125		4 x 125ml
84010060	ORIGIO Gradient™ 90	60ml
84022060		2 x 60ml
84022010	ORIGIO Gradient™ 40/80	2 x 10ml
84021210		12 x 10ml
84050060		60ml
84055060	ORIGIO Sperm Wash	5 x 60ml
84051010		10 x 10ml



1. Rossato, M., Balercia, G., Lucarelli, G., Foresta, C., & Mantero, F. (2002). Role of seminal osmolarity in the regulation of human. International Journal of Andrology, 230-235.
2. Yeung, C., Anapolski, M., Depenbusch, M., Zitzmann, M., & Cooper, T. (2003). Human sperm volume regulation. Response to physiological changes in osmolality, channel blockers and potential sperm osmolytes. Human Reproduction, 1029-1036.
3. Achikanu, C., Pendekanti, V., & Rebecca, T. (2018). Effects of pH manipulation, CatSper stimulation and Ca2+-store mobilization on [Ca2+]i and behaviour of human sperm. Human Reproduction, 1802-1811.
4. DeRosa, N., Pooley, K., Kohut, T., Dissing, M., Campbell, B., Kirkman, & Jacks, J. (2015). Synergistic role of bicarbonate and pH on sperm motility and velocity in sperm preparations. (p. 70). Birmingham: British Fertility Society Association of Clinical Embryologists Society for Reproduction and Fertility.

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