

# ISolate® Sperm Separation Medium



ISolate yields a high concentration of motile sperm by density gradient separation to help improve the chance of fertilization with healthy and low quality semen samples.

As a one- or two-layer gradient system, ISolate effectively removes cellular contaminants - dead sperm, white cells, and miscellaneous debris - to yield a sample that contains predominately motile sperm with normal morphology. ISolate can be used to separate low and normal quality semen samples for IUI, IVF, and ICSI.

ISolate is a sterile, colloidal suspension of silica particles stabilized with covalently bound hydrophilic silane in HEPES-buffered HTF. This buffered system maintains a physiological pH at ambient conditions (do not use in a CO<sub>2</sub> incubator unless tightly capped).

A fresh or cryopreserved semen sample is overlaid on 1.5 to 2.0 mL layers of the ISolate in a conical centrifuge tube. The prep tube is then centrifuged at a low speed of 200-300 xg for 20 minutes. This action causes separation of the seminal components. Dead sperm and debris are found in the upper portion of the tube while a fraction of highly motile, morphologically normal cells will form a pellet in the bottom.

ISolate is one of the most widely used gradient sperm separation media in the world. It has shown comparable or superior performance to other standard gradient separation media and superior performance to standard swim-up procedures.

#### ISolate, Catalog #99264:

- 50% upper layer and 90% lower layer
- Ready-to-use, no dilutions necessary
- Three available configurations:
  - 12 x 6 mL vials ~ 18 applications
  - 2 x 50 mL vials ~ 25 applications
  - 2 x 100 mL vials ~ 50 applications

#### ISolate Stock Solution, Catalog #99275:

- 90% density gradient medium
- Allows quick single layer separation or creation of custom density gradients
- Available in 100 mL bottles

#### ISolate Concentrate, Catalog #99306:

- 100% colloidal silica concentrate
- For dilution into custom sperm separation density gradients
- Available in 100 mL bottles

#### Features and Benefits

- Sperm survival assay tested
- Rabbit pyrogen tested
- Certificate of Analysis provided for each lot manufactured
- Shelf-life is two years when stored at 2° to 8°C

*Each* lot of ISolate receives a complete laboratory evaluation including sperm survival assay, endotoxin level, pH, osmolality and sterility testing. All results are provided in a lot-specific Certificate of Analysis.

Irvine Scientific's commitment to excellence is demonstrated by our products' performance and adherence to the industry's highest quality standards. We were one of the first companies in the USA to receive ISO 13485:2003 quality systems certification, the new rigorous international quality assurance standard designed specifically for Medical Devices.

Always refer to product insert for complete instructions for use. For more information on all of our Reproductive Products, call 1 (800) 437 5706.

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