

ISolate® Sperm Separation Medium



ISolate® is a superior medium for separation of the motile fraction of sperm from its surrounding seminal plasma by density centrifugation.

As a two-layer gradient system, ISolate effectively removes cellular contaminants - dead sperm, white cells, and miscellaneous debris - yielding a sample that contains predominately motile sperm.

ISolate is a sterile, colloidal suspension of silica particles stabilized with covalently bound hydrophilic silane in a HEPES-buffered HTF. This buffered system maintains a physiological pH at ambient conditions (do not use this product in a CO₂ incubator unless tightly capped).

A fresh or cryopreserved semen sample is overlaid on 1.5 to 2.0 mL aliquots of the two-layer gradient system in a conical centrifuge tube. The prep tube is then centrifuged at a low speed, ~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.

Irvine Scientific has conducted extensive performance and safety testing on ISolate. These studies indicate that it is comparable or superior to the standard separation techniques utilizing Percoll® and superior in 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 to choose from:
 - 12 x 6 mL vials ~ 18 Isolations
 - 2 x 50 mL vials ~ 25 Isolations
 - 2 x 100 mL vials ~ 50 Isolations

ISolate Stock Solution, Catalog #99275:

- 90% density gradient medium
- "Isotonic" stock solution; allows end users to make their own working dilutions where two layer isolations are preferred.
- Available in 100 mL bottles.

ISolate Concentrate, Catalog #99306:

- 100% colloidal silica concentrate.
- Percoll®
- Available in 100 mL bottles.

Larger volume custom fill sizes available.

Features and Benefits

- Rabbit pyrogen tested
- Sperm survival assay 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 mouse embryo testing, 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.

EC REP MPE
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ISolate® is a registered trademark of Irvine Scientific.
Percoll® is a registered trademark of Pharmacia Biotech AB, Sweden.

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